CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Piers, Baltimore, Md., Mayor and City Council plans developing port, $25,000,000.

Power plant, Philo, O., Ohio Power Co. soon takes bids, $17,000,000.

Opera house and office, Chicago, Ill., S. Insull making plans, $14,000,000-$16,000,000.

Roads, Wash., D. C., U. S. Dept. of Agriculture, Forest Service appropriated, $7,500,000.

Office, New York, N. Y., Western Union Telegraph Co. making plans, $5,000,000.

Street improvement, Milwaukee, Wis., Dept. Pub. Wks. plans spending $3,500,000.

Sewers, East St. Louis, Ill., Bd. Trustees East Side Levee and Sanitary Dist. making preliminary plans, $3,000,000 to $4,000,000.

Seawall, Hahnville, La., St. Charles Parish Police Jury making preliminary plans, $3,000,000.

Auditorium, lodge, etc., San Francisco, Calif.

Mystic Shrine of San Francisco making plans, $1,500,000-$3,000,000.

Schools, Seattle, Wash., election Mar. 8, $2,400,000.

Viaduct, auditorium and municipal market, Shreveport, La., City plans election in March, $2,000,000.

Apartment, New York, N. Y., Sammin Holding Corp. will build, $2,000,000.

Medical School, Richmond, Va., University of Virginia making plans, $1,500,000.

Paving, Maryland, State Rd. Comn. making plans, $1,500,000.

High School, Hyde Park, Mass., city of Boston having plans prepared, $1,500,000.

Paving, Baltimore, Md., making plans, $1,250,000.

Apartment, New York, N. Y., Eight Hundred Twelve Park Ave. Corp. having plans prepared, $1,140,000.

Bids Desired

Department Store, Newark, N. J., Jan. 15 by L. Bamberger & Co., $10,000,000.

Office, Louisville, Ky., Feb. 1 by F. G. Breslin, $1,500,000.

Contracts

Theater and office, St. Louis, Mo., Wm. Fox Film Co. to Aronberg & Fried, Inc., $3,250,000.

Culverts, grading, bridges, Missouri, Missouri Pacific R.R. Co., to Winston Bros. Co., $1,250,000. Total $3,000,000.

Boiler and power plant, Paulsboro, N. J., Vacuum Oil Co. to Stone & Webster, $2,000,000.

Chemistry, Cambridge, Mass., Harvard University to Hegeman-Harris Co., $2,000,000.

Store and garage, Akron, O., Officials M. O'Neill Co. to Carmichael Constr. Co., $2,000,000.

High School, Philadelphia, Pa., Bd. Educ. to McCloskey Co., $1,127,718.

Classified Index of Bids Wanted

Waterworks

Bids close — *See Eng. News-Record*

Jan. 21 Hawthorne, N. J. ..... Jan. 6
Jan. 22 Detroit, Mich. ..... Jan. 20
Jan. 24 St. Louis, Mo. ..... Jan. 20
Jan. 25 Cedar Key, Fla. ..... Jan. 20
Jan. 26 Detroit, Mich. ..... Jan. 20
Jan. 28 Springfield, Mass. ..... Jan. 20
Adv. Jan. 20.
Jan. 29 Springfield, Mass. ..... Jan. 20
Adv. Jan. 20.
Jan. 31 North Mankato (Mankato P. O.), Minn. ..... Jan. 20
Feb. 1 St. Louis, Mo. ..... Jan. 20
Feb. 4 Slidell, La. ..... Jan. 13
Feb. 7 Lake Forest, Ill. ..... Jan. 13
Feb. 7 Fairfield, Calif. ..... Jan. 20
Feb. 8 Toronto, Ont. ..... Jan. 13
Feb. 23 Detroit, Mich. ..... Jan. 20
Adv. Jan. 20.

Sewers

Jan. 21 Pittsburgh, Pa. ..... Jan. 13
Jan. 24 Mankato, Minn. ..... Jan. 13
Jan. 24 Chicago, Ill. ..... Jan. 20
Jan. 25 Rice Lake, Wis. ..... Dec. 30
Jan. 25 Emporia, Kan. ..... Jan. 13
Jan. 25 Toronto, Ont. ..... Jan. 13
Jan. 25 Chicago, Ill. ..... Jan. 20
Jan. 25 Wash., D. C. ..... Jan. 20
Jan. 26 St. George, N. Y. ..... Jan. 20
Feb. 3 Little Rock, Ark. ..... Jan. 13
Feb. 3 Little Rock, Ark. ..... Jan. 20
Feb. 4 North Chicago, Ill. ..... Jan. 13
Feb. 4 Slidell, La. ..... Jan. 13
Feb. 15 Rushville, Ind. ..... Jan. 13
Feb. 15 Bloomfield, Ind. ..... Jan. 20
Adv. Jan. 20.

Waste Disposal

Feb. 8 Fort Lauderdale, Fla. ..... Jan. 20
Adv. Jan. 20.
Feb. 14 New York, N. Y. ..... Jan. 20

Bridges

Jan. 24 Michigan ..... Jan. 13
Jan. 28 Missouri ..... Jan. 20
Feb. 1 South Dakota ..... Jan. 20
Feb. 2 Reading, Pa. ..... Jan. 13
Adv. Jan. 13 and 20.
Feb. 3 Jersey City, N. J. ..... Jan. 6
Feb. 5 Winchendon, Mass. ..... Jan. 13
Feb. 17 Kentucky ..... Jan. 20

Excavation, Drainage, Irrigation, Levees, River and Harbor

Jan. 21 Cleveland, O. ..... Jan. 20
Feb. 1 New York ..... Jan. 20
Adv. Jan. 20.

Bids close — *See Eng. News-Record*

Feb. 2 Duluth, Minn. ..... Dec. 30
Feb. 2 Washington, Ia. ..... Jan. 20
Feb. 5 Savanna, Ill. ..... Jan. 20
Feb. 8 New York ..... Jan. 13
Adv. Jan. 13 and 20.
Feb. 10 Maquoketa, Ia. ..... Jan. 6
Adv. Jan. 13 and 20.

Streets and Roads

Jan. 22 Newfoundland, N. J. ..... Jan. 13
Jan. 22 Mt. Clemens, Mich. ..... Jan. 20
Jan. 25 Birmingham, Ala. ..... Dec. 30
Jan. 25 Marysville, Kan. ..... Dec. 30
Jan. 25 Louisiana ..... Jan. 6
Jan. 25 Virginia ..... Jan. 13
Jan. 25 Iowa City, Ia. ..... Jan. 13
Jan. 25 Iowa City, Ia. ..... Jan. 20
Jan. 26 Oceanside, Calif. ..... Jan. 20
Jan. 26 San Antonio, Tex. ..... Jan. 20
Jan. 26 Alice, Tex. ..... Jan. 20
Jan. 26 Brooklyn, N. Y. ..... Jan. 20
Jan. 27 Louisiana ..... Jan. 13
Jan. 27 Sanford, Fla. ..... Jan. 20
Jan. 28 Louisiana ..... Jan. 6
Jan. 28 Lincoln, Kan. ..... Jan. 13
Jan. 28 Manhattan, Kan. ..... Jan. 20
Jan. 28 Missouri ..... Jan. 20
Jan. 31 Buffalo, N. Y. ..... Jan. 20
Jan. 31 California ..... Jan. 20
Jan. 31 Los Angeles, Calif. ..... Jan. 20
Jan. 31 Syracuse, N. Y. ..... Jan. 20
Adv. Jan. 20.
Feb. 1 Birmingham, Ala. ..... Jan. 13
Feb. 1 Philippi, W. Va. ..... Jan. 13
Feb. 2 Delaware ..... Jan. 13
Feb. 2 San Benito, Tex. ..... Jan. 13
Feb. 7 Rensselaer, Ind. ..... Jan. 20
Feb. 7 Rising Sun, Ind. ..... Jan. 20
Feb. 8 St. Louis, Mo. ..... Jan. 20
Feb. 8 West Virginia ..... Jan. 20
Adv. Jan. 20.
Feb. 8 Brazil, Ind. ..... Jan. 20
Feb. 8 Bloomfield, Ind. ..... Jan. 20
Feb. 8 Decatur, Ind. ..... Jan. 20
Feb. 8 Auburn, Ind. ..... Jan. 20
Feb. 11 Council Grove, Kan. ..... Jan. 20
Feb. 15 Birmingham, Ala. ..... Jan. 20
Feb. 15 Greencastle, Ind. ..... Jan. 20
Feb. 15 St. Louis, Mo. ..... Jan. 20
Feb. 15 Santa Rosa, Calif. ..... Jan. 20
Feb. 18 Kentucky ..... Dec. 16
Feb. 24 Kenosha, Wis. ..... Jan. 13
Mar. 15 Minot, N. D. ..... Jan. 13

Buildings—Commercial

Jan. 21 Dormont, Pa. ..... Jan. 20
Jan. 22 Sheffield, Ala. ..... Jan. 13
Jan. 24 Hartford, Conn. ..... Jan. 6

Bids close — *See Eng. News-Record*

Jan. 24 St. Louis, Mo. ..... Jan. 20
Jan. 25 Jacksonville, Fla. ..... Jan. 13
Jan. 25 St. Louis, Mo. ..... Jan. 20
Jan. 26 New Orleans, La. ..... Jan. 13
Jan. 28 Birmingham, Ala. ..... Jan. 20
Feb. 1 Louisville, Ky. ..... Jan. 20
Feb. 1 St. Louis, Mo. ..... Jan. 20
Apr. 1 Canton, O. ..... Jan. 20

Buildings—Industrial

Jan. 25 Cleveland, O. ..... Jan. 20
Jan. 25 Long Island City, N. Y. ..... Jan. 25
Jan. 31 Bakersfield, Calif. ..... Jan. 20
Feb. 7 Chagrin Falls, O. ..... Jan. 13
Feb. 9 Matteawan (mail Glenham), N. Y. ..... Jan. 20
Adv. Jan. 20.

Buildings—Educational, Religious

Jan. 21 Portsmouth, O. ..... Dec. 30
Jan. 21 Indianapolis, Ind. ..... Dec. 30
Jan. 21 Albany, N. Y. ..... Jan. 13
Jan. 21 Sandusky, O. ..... Jan. 13
Jan. 22 Milwaukee, Wis. ..... Jan. 20
Jan. 23 Pittsburgh, Pa. ..... Jan. 20
Jan. 23 St. Louis, Mo. ..... Jan. 20
Jan. 24 East Grand Rapids (mail Grand Rapids), Mich. ..... Dec. 30
Jan. 25 Vineland, N. J. ..... Jan. 6
Jan. 25 Barberton, O. ..... Jan. 20
Jan. 28 Ann Arbor, Mich. ..... Jan. 20
Jan. 29 Ponca City, Okla. ..... Jan. 20
Jan. 31 Hughesville, Pa. ..... Jan. 13
Jan. 31 Meadville, Pa. ..... Jan. 20
Feb. 1 Wash., D. C. ..... Oct. 7
Feb. 2 St. Louis, Mo. ..... Jan. 20
Feb. 3 College Hill (Beaver Falls P. O.), Pa. ..... Jan. 20
Feb. 8 L'Anse, Mich. ..... Jan. 20
Feb. 10 Fresno, Calif. ..... Jan. 13
Feb. 10 Bloomfield, N. J. ..... Jan. 20
May 1 Monroe, Mich. ..... Jan. 13

Federal Government Work

Jan. 25 Fire Alarm System—Sheridan, Wyo. ..... Jan. 6
Jan. 27 Barracks—Oceanport, N. J. Jan. 6
Adv. Jan. 13 and 20.
Jan. 29 Storehouse—Fort Myer, Va. ..... Jan. 20
Feb. 2 Radio Towers—Fire Island (mail Babylon), N. Y. ..... Jan. 20
Adv. Jan. 20.
Feb. 3 Pumps—San Francisco, Calif. ..... Jan. 13
Feb. 5 Removing Dredge—Wilmington, Del. ..... Jan. 20
Adv. Jan. 20.

See proposal advertising on page 136

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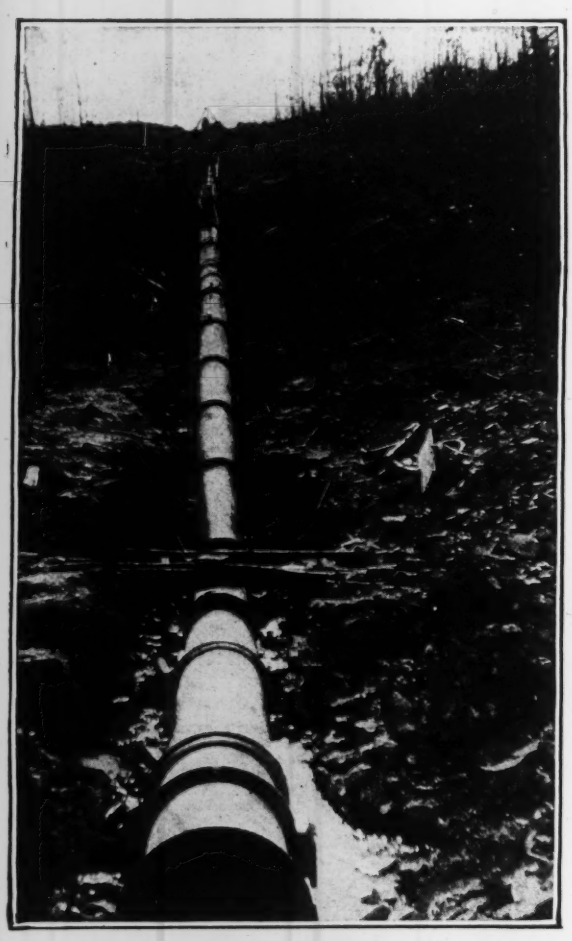

Section of 9 miles 30-in. and 36-in. pipe laid with LEADITE

LEADITE, like cast-iron pipe, has proven its durability.

LEADITE has been successfully tested and used for over 30 years for jointing all sizes of cast-iron bell and spigot water mains from 4 in. to 60 in. in diameter, under all pressures and conditions encountered in water-works construction.

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NO CAULKING

Bids close	See Eng. News-Record
Feb. 7	Tug—Mobile, Ala.....Dec. 16
Feb. 9	Heating Equipment, etc.—Mare Island, Calif. .....Jan. 6
Feb. 10	Dredging, etc.—Alaska....Jan. 6
Feb. 11	Dredge, etc.—Wash., D. C..Jan. 20
Feb. 14	Post Office and Courthouse—Syracuse, N. Y. .....Jan. 13 Adv. Jan. 13 and 20.
Feb. 14	Equipment—Syracuse, N. Y. .....Jan. 20 Adv. Jan. 20.
Mar. 10	Scout Cruisers, etc.—Wash., D. C. .....Dec. 30

Unclassified

Jan. 24	Swimming Pool, New Orleans, La. .....Jan. 20
Jan. 25	Culverts, etc.—Iowa City, Ia. .....Jan. 13
Jan. 25	Steel Wharf Barge—Minneapolis, Minn. .....Jan. 13

Bids close	See Eng. News-Record
Jan. 26	Reinforcing—Mamaroneck, N. Y. .....Jan. 20 Adv. Jan. 20.
Jan. 26	Electrical Equipment, etc. —Chicago, Ill. .....Jan. 20
Jan. 28	Subway—Brooklyn, N. Y...Jan. 20
Jan. 31	Wading Pool Shelter—Yonkers, N. Y. .....Jan. 20 Adv. Jan. 20.
Jan. 31	Lighting System—Los Angeles, Calif. .....Jan. 20
Feb. 1	Lighting System—Minneapolis, Minn. .....Jan. 13
Feb. 1	Ice Breaker, etc.—South Dakota .....Jan. 20
Feb. 7	River Terminal—Dubuque, Ia. .....Jan. 13
Feb. 7	Lighting System—San Antonio, Tex. .....Jan. 20
Feb. 14	Electrical Equipment—New York, N. Y. .....Jan. 20
Feb. 23	Tunnel—Detroit, Mich....Jan. 20 Adv. Jan. 20.

Materials

Bids close	See Eng. News-Record
Jan. 21	Steel Wheels—Phila., Pa..Jan. 13
Jan. 21	Broken Stone—New York, N. Y. .....Jan. 20
Jan. 24	Lumber, etc.—Clinton, Ia..Jan. 13
Jan. 24	Cement—Mt. Clemens, Mich .....Jan. 20
Jan. 25	Lumber, etc.—Iowa City, Ia. .....Jan. 13
Jan. 25	Structural Metal Work, etc. —Phila., Pa. .....Jan. 20
Jan. 25	Lumber, etc.—Harlan, Ia..Jan. 20
Jan. 25	Lumber, etc.—Guthrie Center, Ia. .....Jan. 20
Jan. 25	Trackwork, Boston, Mass..Jan. 20
Jan. 25	Shut-off Box Fitting—Chicago, Ill. .....Jan. 20
Jan. 27	Corporation Cocks—Chicago, Ill. .....Jan. 20
Jan. 27	Curb Cocks—Chicago, Ill..Jan. 20
Feb. 7	Road Oil—Winona, Minn...Jan. 20

News of the Week

Waterworks

Proposed Work

Fla., Fort Lauderdale — Plans waterworks extensions and filter plant. $400,000.

Ky., Augusta — City Council retained Cole, Asire & Moore, Inc., 730 J. M. S. Bldg., South Bend, Ind., to furnish plans and specifications, etc., new waterworks. Cost not to exceed $37,000.

Wis., Janesville—Making plans 10 m.g. rein.-con. storage reservoir. To exceed $15,000. C. V. Kerch, City Hall, engr.

Wis., Milwaukee—See "Bids Received."

Ia., Webster City—Plans water purifying system. $20,000. W. R. Ryan, city clk.

Kan., Olathe—Making preliminary plans waterworks improvements, incl. 700 ft. dam, 40 ft. high, pumping equipment, etc. $50,000. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs. Noted Dec. 2.

Mo., Mansfield—Soon takes bids complete waterworks and distribution systems. $40,000. J. W. Shikles & Co., 708 New York Life Bldg., Kansas City, engrs. Noted Nov. 25.

Tex., Coolidge—Defeated $20,000 bonds, waterworks improvements. This corrects report in Dec. 30 issue.

Tex., Gordon—Voted $50,000 bonds, complete waterworks. Address Mayor.

Tex., Happy — Chamber of Commerce plans waterworks and natural gas system.

Tex., McAllen — South Texas Coast Co. takes bids after Jan. 25, 5 m.g. earth reservoir, at Holly Beach, near here. $60,000. Private plans.

Okla., Hazel—Making plans waterworks. $18,000. Address R. A. Ruggles, mayor.

Okla., Sayre—Making plans new wells, pump house, 3 triplex pumps and motors, 4,500 ft. 8 in. c.i. pipe, etc. $60,000. Gantt Eng. Co., 1116 West Main St., Oklahoma City, engrs.

Okla., Tulsa—Making preliminary plans 15,000 ft. 24 in. c.i. mains in 2nd St. from Cheyenne to Greenwood Sts. $60,000. C. Schultz, City Hall, engr.

Calif., Redding—California Water Serv. Corp., plans filtration plant in connection with water system. $50,000.

Ont., Wheatley — City Council plans waterworks in spring. $85,000. R. N. Eppelt, Town Hall, engr.

Bids Desired

Mass., Somerset — Taking bids water system and pumping station. $500,000. F. A. Barbour, 1119 Tremont St., Boston, engr. Noted Dec. 16.

Mass., Springfield—Jan. 28, by Bd. Water Comrs. of Springfield Municipal Water works, Municipal Bldg., brass goods; and Jan. 29, c.i. pipe and valves, all f.o.b. Armory. H. M. King, supt.; adv. E. N.-R. Jan. 20.

Fla., Cedar Key—Jan. 25, by Bd. Bond Trustees, shallow wells, pumps, station, tank, reservoir and piping. $60,000. G. A. Main, ch. engr.

Mich., Detroit—Jan. 22, by J. E. Mills, comr. Purchases & Supplies, Marquette Bldg., ten 12 in. extra heavy high pressure gate valves with bell ends and lugs, five 12 in. and twenty 8 in. extra heavy hp. gate valves with flanged ends, for Fire Dept.

Mich., Detroit—Jan. 26, by Bd. Water Comrs., 176 East Jefferson Ave., 16,595 ft. 6- to 12-in. c.i. mains, etc., in Appleton, Virgil, Riverdale, Grayfield, Hazelton, Francisco, Schoolcraft Beaverlans, Brammel, Wanamaker and Chatham Sts., Contr. 1927-1; 36,935 ft. 6- to 16-in. in Outer Dr., Six Mile and Seven Mile Rds., Evergreen, Plainview, Westmoreland, Annchester, Edinborough, Sunderland, Stahelin, Avon, Greenview and Foust Sts., Contr. 1927-3; and 22,355 ft. 6- to 16-in. in Lahser, Graydale, Burgess, Chapel, Bontler, Pembroke, Fielding, Stout, Kentfield, Hoyden and Vaugh Aves. G. H. Fenkell, 176 East Jefferson Ave., genl. mgr. Noted Dec. 9.

Minn., North Mankato (Mankato P. O.)—Jan. 31, by City, I. J. Hensel, clk., drilling two or three 12 in. tubular wells, 60 ft. deep. Noted Oct. 21.

Mo., St. Louis — Jan. 24, by Supply Comrs., G. J. Dietz, City Hall, 20 tons 3 in., 1,000 tons 6 in., 500 tons 8 in., 1,300 tons 12 in. and 1,250 tons 20 in. c.i. pipe, for City Water Dept. $200,000. J. Pritchard, City Hall, dir.

Mo., St. Louis—Feb. 1, by Bd. Pub. Serv., 208 City Hall, 3 traveling screens in intake chamber of Missouri River Pumping Station at Howards Bend, St. Louis Co., $20,000; and installing standard gauge railway switch between Missouri River Waterworks Sta. and point near settling basin and coagulant plant, $11,000. J. Pritchard, City Hall, dir.

Tex., Olmito (mail Brownsville) — A. Parker Securities Co., Brownsville, taking bids waterworks, incl. 4- to 8-in. c.i. mains, pumping unit, etc., here. $120,000. Private plans.

Tex., Weslaco—Boco Chica Beach, Inc., taking bids waterworks at resort, near here.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

$30,000. Private plans. Interested contractors should communicate with owners direct. Noted Dec. 23.

Calif., Fairfield—Feb. 7, by Clerk Solano Co., constructing water supply system in Vallejo Annex. To exceed $25,000. Noted Dec. 2.

Bids Received

Wis., Milwaukee—Central Bd. Purchases, J. W. Nicholson, ch. buyer, Jan. 10, from U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, Ill., 1,700 tons 6 in. pipe at $45 per ton, and 1,700 tons 16 in. $43.50, also 211 tons special castings $78; from Amer. C. I. Pipe Co., 38 South Dearborn Ave., Chicago, Ill., 2,000 tons 8 in. pipe $44.30; from Natl. C. I. Pipe Co., 122 South Michigan Ave., Chicago, Ill., 1,600 tons 8 in. pipe, $43.25; and from J. B. Clow & Sons, North Tallmadge Ave. and West Lake St., Chicago, Ill., 237 offsets, $154; also received no bids 205 special tapping sleeves. Noted Jan. 6.

Minn., St. Paul—A. E. Eggert, city purch. agt., Jan. 11, 210 gate valves, in four sizes, from Crane Co. of Minnesota, 356 Bway., at $7.70, $10.39, $17.70 and $29.42 each respectively. Noted Jan. 6.

Contracts Awarded

N. Y., Adams—Bd. Trustees, Municipal Bldg., water system, to Bird & Street Bros. Constr. Co., Wieting Bldg., Syracuse. Noted Nov. 25.

N. Y., Syracuse—For 4,000 lin.ft. 16 in. mains and sewers in Carlton Rd. and Wadsworth Dr., to Bird & Street Bros. Constr. Co., Wieting Bldg., $15,000. This corrects report in Dec. 23 issue.

Md., Baltimore—Bd. Awards, c.i. pipe and fittings to Bureau Water Supply, to Baltimore Clay Products Co., 2113 West Lafayette Ave., $20,650. Noted Jan. 13.

O., Cincinnati—Director Pub. Serv., manufacturing, furnishing and delivering 1,785 tons 4- to 12-in. c.i. pipe, and 75 tons 4- to 12-in. castings, to U. S. Cast Iron Pipe Co., Addyston, $88,953, engrs. est. $100,000; also laying 409,400 lin.ft. 4- to 12-in. c.i. mains in various unimproved streets, to M. F. Quill, 409 Gerke Bldg., $83,846, engrs. est. $100,000. Noted Jan. 13.

Wis., Milwaukee—Central Bd. Purchases, J. W. Nicholson, ch. buyer, meter, corporation and curb cocks, to Gibson Bros. Mfg. Co., North Chicago, Ill., $12,607; stop cock boxes and parts, to Hoffman-Billings Mfg. Co., 100 2nd St., $5,712; gate valves, to Michigan Valve & Fdry. Co., 3631 Parkinson St., Detroit, Mich., $34,367; and 50,000 lb. liquid chlorine, to M. Alkali Wks., 310 South Michigan Ave., Chicago, Ill., $4,588. Grand total $57,274. Noted Jan. 13.

Mo., St. Louis—For 1,000 tons 6 in. c.i. water pipe, to Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., at $40.08 per ton.

Tex., Amarillo — Waterworks improvements, incl. 78,230 ft. c.i. mains, excavating and backfilling, to Gordon Constr. Co., Barclay Bldg., Denver, Colo., $18,000. Noted Dec. 30.

Tex., Corpus Christi—For 9,790 ft. 4 and 6 in. c.i. mains, six 6 in. gate valves, twenty-five 6 x 4 in. crosses and fourteen 6 in. tees, etc., in Hillcrest addition, to Smith Bros., Inc., Crockett. $16,000.

Wash., Bellingham—City Council, 27,000 ft. 4- to 12-in. c.i. pipe for water system extensions, to H. G. Purcell Co., Colman Bldg., Seattle, $23,863. Noted Dec. 30.

Wash., Yakima — City Comrs., mains within city limits, to Olmypic Constr. Co., 1326 Northlake St., Seattle, $20,481; and materials, to Amer. Cast Iron Pipe Co., L. C. Smith Bldg., Seattle, $55,763. Noted Nov. 11.

Calif., Riverside — For 35,320 ft. ditch, excavate and back fill, 12,095 ft. 42 in. pipe, 50 ft. head, 11,285 ft. 42 in., 75 ft. head, 8,515 ft. 42 in., 93 ft. head and 3,425 ft. 52 in., 105 ft. head, to H. W. Rohl, 625 Market St., San Francisco, $307,205 (on basis of centrifugally cast rein.-con. pipe) Noted Jan. 13.

Sewers

Proposed Work

N. Y., Williamsville — Voted $532,000 bonds, sewage disposal plant and sewerage system. This corrects report in Jan. 13 issue.

Constr. News page 36

When time is money . . .

use High-Early-Strength concrete made with standard (not special) Universal Cement

State Street, Vandalia, Ill. F. N. Smith, R. C. Emerick, Vandalia, contractors. Standard *Universal* (not special) cement furnished by Vandalia Lumber Co.

Days Saved in Repairing Town's Principal Street

A new sewer system tore up the main thorofare of Vandalia, Ill. Asked to rush repairs, the contractor used thoroly tested methods and standard *Universal* (not special) cement to obtain High-Early-Strength concrete.

As a result, the city regained the full use of its main street much earlier than would have been the case under ordinary practise, and in addition, obtained a permanently *better* and *stronger* concrete pavement.

High-Early-Strength *Universal* Concrete is used on all kinds of Jobs. The accompanying coupon will bring full details promptly.

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago

Without obligation, please send me detailed information on methods for securing strong concrete in 3 days with standard *Universal* [not special] cement, the same quality *Universal* regularly used.

Name .....

Address .....

ENR 1-20-27

Sewers (Continued)

Va., **South Williamsport** (mail Williamsport)—See "Streets and Roads."

S. C., **Columbia**—Voted $300,000 bonds, storm drains in various streets.

Fla., **Fort Lauderdale**—Plans sewage disposal plant and mains. $200,000.

Fla., **Palm Beach**—Soon takes bids 39,500 ft. vitr. clay sewerage system. L. T. B. Southwick, town engr.

La., **Bunkie**—City, E. Talefero, mayor, soon takes new bids 6,366 ft. 12- to 24-in. sewers, and 11,200 ft. concrete curb and gutters, etc. in sewerage Dist. 1. H. A. Mentz, Hammond, engr.

La., **Vivian** — Plans election in March, $80,000 bonds, sewerage system and disposal plant. C. D. Evans, 414 Levy Bldg., Shreveport, consult. engr. Noted Oct. 28.

O., **Springfield** — Bd. City Comrs. take bids in spring, storm water sewer in Henry St. from Lagonada Ave. to Buck Creek. $26,465. W. E. Lucas, Springfield, engr.

Ill., **East St. Louis**—Bd. Trustees East Side Levee & Sanitary Dist. making preliminary plans cut off sewer to eliminate Cahokia Creek and serve as outlet for proposed joint sewer district to include National City, Fairmont City, Washington Park and Lansdowne and Rosemont sections of here. $3,000,000-$4,000,000. E. F. Harper, c/o owner, engr.

Mo., **St. Louis**—Bd. Pub. Wks., 208 City Hall, soon takes bids South Hurst Joint Sewer, 4,755 ft. 12- to 48-in. segmental block or vitr. brick pipe, $40,000; and West Rock Creek Joint Sewer, 4,165 ft. 12- to 54-in. segmental block or vitr. brick pipe, etc., $95,000. W. W. Horner, 300 City Hall, engr.

Tex., **Rockdale**—Election about Feb. 1, $25,000 bonds, extending sewers in outlaying districts. Address Mayor.

Okla., **Maud**—Plans 6 mi. new sanitary sewerage system and disposal plant, incl. Imhoff tank, etc. $45,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., **Palo Alto**—Made plans 20,210 ft. 10- to 24-in. concrete sewer in portions Alba Park, etc. J. F. Bxybee, Jr., city engr.

Calif., **Sacramento**—Rejected bids Dec. 16, vitr. and pre-cast concrete sewer in North B St. between 5th and 18th Sts. Noted Jan. 13.

Ont., **Riverside**—Council plans vitr. tile sewers in St. Paul Ave., Thompson Blvd. and Ottawa St. $49,115. A. Smith, engr.

Ont., **Riverside** — Council plans storm sewers in Ottawa St. and Thompson Blvd. $50,000. C. J. McHugh, City Hall, engr.

Ont., **St. Catharines** — See "Streets and Roads."

Ont., **Toronto**—York Twp. making plans and soon takes bids 3,470 lin.ft. 8 in. and up vitr. tile sewers in Bernice Crescent, Eileen and Lyndon Aves. $28,720. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

N. Y., St. George — Jan. 26, by J. A. Lynch, pres. Queens Boro, Queens Subway Bldg., sanitary sewers in Oakley Pl. and Liberty Ave.

D. C., Wash.—Jan. 25, by Dist. Comrs., District Bldg., sewers in various streets.

Fla., Cedar Key—Jan. 25, by Bd. Bond Trustees, sewer pumps, septic tank and collecting system. $45,000. G. A. Main, ch. engr.

Ind., Bloomfield—Feb. 15, at office A. G. Pate, lawyer, sewers and disposal plant. $40,954. C. Christie, town clk.-treas.; adv. E. N.-R. Jan. 20.

Ill., Chicago—Jan. 24, by City, Room 406, City Hall, sewer pipe and fittings required by Bureau Eugineering for period ending Dec. 31. A. A. Sprague, comr. Pub. Wks.

Ark., Little Rock—Feb. 3, by Bd. Comrs. Sewer Impvt. Dist. 104, at office Democrat Printing & Lithographing Co., 2nd and Scott Sts., storm and sanitary sewers in various streets, 3,060 ft. 10- to 15-in. vitr. clay and 2,300 ft. 48 in. rein.-con. pipe, etc. $600,500. Ford & McRea, 215 Gazette Bldg., and Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs. Noted Jan. 13.

Bids Received

N. Y., Brooklyn—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, Jan. 12, from Wilcox & Stutz, Inc., 1723 Beverly Rd., sewer in Lorimer St., $169,475; from Tomassetti & Co. Inc., 1133 16th St., 96th St. $3,493, Dahlgren Pl. $6,267, and Lenox Rd. $4,823; from Manmill Constr. Co., 2035 Douglas St., Utica Ave. $7,599. Noted Jan. 6.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Jan. 11, from P. J. Greenough, 9919 Guilford Ave., Forest Hills, sewer in Adam St. $1,920, 83rd St. $1,780, and in Myrtle Ave. $5,000; from D. A. Gross, 1815 Fulton St., Woodlawn, 82nd St. $4,431; from J. Gallo, 30th and State Sts., Flushing, 60th St., (a) $37,444 and (b) $30,682, Bradley Ave. $8,443, and Clermont Ave. $1,200; from Kennedy & Smith, Inc., Branford Ave., Flushing, in 42nd Ave. $2,533. Noted Jan. 6.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., Jan. 11, sewer in East 224th St., from Anita Constr. Co., 2975 Marion Ave., $31,269; and Allerton Ave., from A. Musumecci & Sons, Inc., 277 East 146th St., $20,188. Noted Jan. 6.

N. J., Neptune City (mail Avon-by-the-Sea)—Boro Council sewerage system, incl. 49,720 lin.ft. 5- to 15-in. terra cotta pipe, 3,200 lin.ft. 8 and 12 in. c.i. pipe, etc., from Pennsylvania Eng. Co., 1119 Howard St., Phila., Pa., $32,525; sewage treatment plant, from Seaman & Letkus, Stone Harbor, $39,200. Noted Dec. 23.

Minn., Minneapolis — F. S. Gram, city purch. agt., Dec. 30, various sized vitr. sewer pipe for 1927 season, from Red Wing Sewer Pipe Co., 614 Metropolitan Life Bldg. Noted Dec. 16.

Calif., Sacramento—H. G. Denton, city clk., from J. E. Tempest, 1450 44th St., (1st unit) sewerage system, pump $6,000, 3,710 ft. trenching $7,000, 2,490 ft. Type "A" concrete pipe $30,000, 1,200 ft. Type "B" concrete pipe $37,000, junction chamber (incl. 30 cu.yd. concrete and 26 cwt. reinforcing) $1,200, etc., total approximately $154,370. Noted Jan. 6.

Contracts Awarded

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., storm relief sewers in Canal and Vestry Sts., etc., to Paulsen Constr. Co., 9303 Sutphin Blvd., Jamaica, $106,871. Noted Jan. 13.

O., Toledo—See "Bridges."

Ind., Hammond—Bd. Wks., sewers in 22nd and 24th Sts., to J. J. Nejdl, Crown Point, $55,076.

Mich., Detroit—Dept. Pub. Wks. constructing West End Ave. Sewer, to Nash Bros., 120 East Baldwin Ave., $758,212, also sewer in Witt Ave. Arm, West End Ave. Sewer, to T. D. Nolan, Plymouth Rd. and Pere Marquette R.R. tracks, $180,897. Noted Jan. 13.

Mo., Jefferson City—C. B. Stares, city clk., extending and improving sewerage system, to Asplund Constr. Co., Tecumseh, Neb., $131,682. Noted Dec. 16.

Mo., Springfield—For 9,832 ft. 8- to 12-in sewers in Dist. 6, Sect. 1, and 11,445 ft. 8 and 10 in. vitr. clay sewers, etc., in Dist. 2, Sect. 44, to R. McSweeney & Easley Bros., Court House Bldg., $11,919 and $12,288 respectively. Noted Dec. 23.

Calif., Glendale — Vitr. sewer, etc., in Chevy Chase Dr., McHenry Rd., etc., to L. Massa, 1326 East Florence Ave., Huntington Park, $73,825. Noted Dec. 30.

Ont., Fort William—Vitr. tile sewers in Gore St., to Flanagan & Co., Murray Blk., $22,395; Crawford and Nipigon Aves., to F. Stewardson, South Mark St., $10,360; and May St., to M. Aalto, Alberta St., $9,000. Grand total $41,755.

Ont., Toronto—For 1,500,000 imp. g.p.d. centrifugal sludge pump with electric motor for main sewage pumping station, to Smart Turner Machine Co., Ltd., 191 Barton St. E., Hamilton. Engrs. est. $15,000.

Ont., Toronto—York Twp. will lay vitr. tile sewer in Rutherford Ave., by day labor, $4,214; also constructing concrete trunk sewer in Times Rd., to Carson Constr. Co., 66 Yonge St., $34,593.

Waste Disposal

Bids Desired

N. Y., New York—Feb. 14, by A. Goldman, comr. Dept. Plant & Structures, Municipal Bldg., destructor plant East 73rd and Exterior Sts., for Dept. Street Cleaning. Noted Dec. 2.

Fla., Fort Lauderdale — Feb. 8, by Bd. City Comrs. at office B. J. Horne, city mgr., garbage and refuse incinerator plant. Solomon, Norcross & Keis, Ft. Lauderdale, and 1404 Candler Bldg., Atlanta, Ga., consult. engrs.; adv. E. N.-R. Jan. 20.

Bridges

Proposed Work

Pa., Pittsburgh—Dept. Pub. Wks. takes bids about Feb. 1, one span concrete filled plate girder bridge over Pennsylvania R.R. tracks, at Millvale Ave. $338,000. Bureau of Bridges, Dept. Pub. Wks., engrs.

Md., Baltimore—See "Unclassified."

Fla., Fort Lauderdale—Plans draw bridge over East Coast Canal at New River Sound, $125,000; also 5 new bridges, etc.

La., Shreveport—City, S. G. Wolf, secy.-treas., plans election in March, $2,000,000 bonds for viaduct, auditorium and municipal market. H. E. Barnes, city engr.

O., Youngstown—Mahoning Co., plans new timber floor replacing portion steel work on bridge at Market St. $50,000.

Ind., Crown Point—Comrs Lake Co. plan 7 new bridges. $290,000.

Ind., Goshen—Elkhart Co. plans 2 new bridges. $300,000.

Wis., Merrill—State Hy. Comn., Madison, takes bids in February, West Main Street Bridge, 525 ft. concrete deck girder span, here. $205,000. C. H. Kirch, Madison, bridge engr. Noted Jan. 6.

Wis., Wausau—State Hy. Comn., Madison, takes bids in early spring, Scott Street Bridge, 525 ft. concrete deck girder span and approaches, here. $390,000. C. H. Kirch, Madison, bridge engr. Noted Nov. 4.

Tex., Abilene—See "Streets and Roads."

Tex., Belleville—See "Streets and Roads."

Tex., Carrizo Springs—See "Streets and Roads."

Tex., Clarksville — See "Streets and Roads."

Tex., Cold Springs — See "Streets and Roads."

Tex., Comanche — See "Streets and Roads."

Tex., Conroe—See "Streets and Roads."

Tex., Cuero—See "Streets and Roads."

Tex., Illinois Bend—Airline Toll Bridge Co., c/o L. Milam, Magnolia Bldg., Dallas, making preliminary surveys, etc., toll bridge across Red River, here. $75,000 Private plans.

Tex., Laredo—See "Streets and Roads."

Tex., Palestine—See "Streets and Roads."

Tex., Panhandle — See "Streets and Roads."

Tex., Port Arthur—Jefferson Co. and Texas & New Orleans R.R. Co. (operated by Southern Pacific Co., E. A. Craft ch. engr., Houston), made plans 100 ft. bascule bridge with concrete approaches across main highway. $275,000. Address S. T. Treadway, Port Arthur, company engr. This corrects report in Dec. 23 issue.

Tex., Sanderson—Southern Pacific R.R. Co., E. A. Craft, ch. engr., Houston, made plans and takes competitive bids after Jan. 18, rein.-con. bridge across Sanderson Creek, here. $125,000. Noted Apr. 15.

Tex., Seguin—See "Streets and Roads."

Calif., Santa Barbara — Plans 120 ft. bridge, 34 ft. high, 30 ft. roadway, on Cliff Dr. $30,000 or more.

Bids Desired

Fla., Sanford—See "Streets and Roads."

Kentucky—Feb. 17, by State Hy. Dept., Frankfort, three 50 ft. span rein.-con. bridge over Louisville & Nashville R.R. tracks, on Hopkinsville-Guthrie Rd., Federal Aid Project 150-A, Christian Co.; three 40 ft. span rein.-con. bridge over Illinois Central R.R. tracks, on Fulton-Clinton Rd., Federal Aid Project 131-F, Fulton Co.; five 50 ft. span rein.-con. bridge over Kentucky River, at Camp Nelson on Lancaster-Nicholasville Rd., State Aid Project 23-A, Garrard and Jassamine Counties. (Latter project awarded to E. F. Bates, Danville, who was later released from contract). E. N. Todd, highway engr. Noted July 8.

South Dakota — Feb. 1, by State Hy. Comn., Pierre, constructing 16 ft., 22 ft., 23 ft., and 26 ft. steel brdges on Federal Aid Project 217-A, Hardin Co., 22,036 lb. reinforcing, 48,108 lb. structural steel, 604 lin.ft. wood piling, 2,416 lb. gas pipe handrail, etc. J. Botterman, Pierre, ch. engr.

Missouri—Jan. 28, by State Hy. Dept., Jefferson City, constructing four 3 ft., two 4 ft., four 6 ft., two 10 ft., four 12 ft., one 14 ft., three 18 ft., and twelve 20 ft. rein.-con. slab spans, etc. in 6 counties; two 10 ft., twenty-two 30 ft., two 35 ft., twenty 40 ft., one 45 ft., and three 50 ft. rein.-con. deck girder spans, etc. in 6 counties; two 75 ft., one 100 ft., two 150 ft., two 80 ft., and one 180 ft. steel truss spans, etc. in 4 counties. B. H. Piepmeier, ch. engr.

Tex., Alice—See "Streets and Roads."

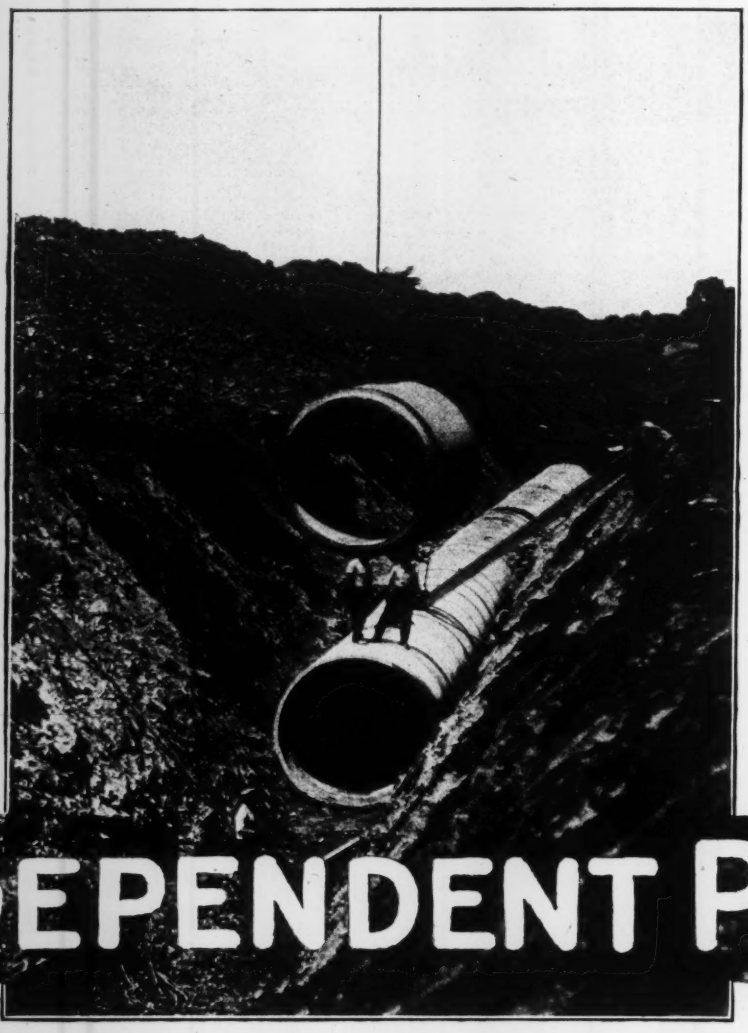
Bids Received

New Jersey—See "Streets and Roads."

Contracts Awarded

Mass., Boston—Dept. Pub. Wks., rebuilding Spans 11 and 12, rein.-con. and steel, Bway. Bridge over New York, New Haven & Hartford R.R. tracks, to Boston Bridge Wks., 47 Winter St., $69,628; and

Constr. News page 37



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Bridges (Continued)

rebuilding West Newton St. Bridge over above tracks, to A. C. Tomascello & Son, 68 Devonshire St., $34,135. Noted Jan. 13.

New York—A. W. Brandt, comr. Dept. Pub. Wks., Albany, constructing Bridge 3, on highway 886, Lexington-Prattsville Rd., Part 2, Greene Co., to M. J. McMahon, Du Bois, Pa., $101,492. Engrs. est. $103,-721. Noted Jan. 6.

Va., Roanoke—W. P. Hunter, city mgr., 2 rein.-con. viaducts over railway tracks at either side Virginia Station, at Walnut Ave. and Jefferson St., to R. C. Churchill, 24 Mountain Ave. S. W., $535,900. Noted June 17.

O., Toledo—W. B. Guitteau, dir. Pub. Serv., 180 ft. steel truss and rein.-con. slab bridge over Swan Creek at South St., and vitr. sewer in same vicinity, to Newton-Baxter Co., 536 Walbridge Ave., $72,646 and $9,033 respectively. Noted Dec. 9.

Ia., Des Moines — Polk Co., high truss bridge, to Capital Constr. Co., 1207 Cherry St., $23,950.

Ia., Harlan — Shelby Co., high truss bridge on Primary Bridge Project 367, to A. Olson Constr. Co., Waterloo, $31,985, 22 culverts, 1 deck girder and 1 slab bridges, to F. O. Akin Constr. Co., Atlantic, $32,940; 21 culverts, to H. Rhodes Co., Guthrie Center, $25,818, and 1 pony truss bridge, to Lundgren-Reis Co., 65 College St., Des Moines, $15,228. Grand total $105,-971. Noted Dec. 16.

Kan., Topeka — Shawnee Co., Richland Bridge, 110 ft. steel span over Wakausha River near Richland, to Somers Constr. Co., Newton, $18,047; Howell Bridge, 100 ft. steel, near Grove, to Erickson Constr. Co., Lindsborg, $15,592.

Kan., Wichita—Sedgwick Co., three 40 ft. and two 30 ft. span deck girder bridges, on Federal Aid Project 344-B, to Ruggles Constr. Co., Winfield, $15,375; one 40 ft., two 140 ft. and twelve 30 ft. span deck girder bridges on same road, to Missouri Valley Bridge & Iron Co., Leavenworth, $59,-855; also grading, etc., 0.53 mi. same road, to E. Graff, Newton, $7,708. Grand total $82,938. Noted Dec. 30.

Dams

Proposed Work

Va., Grove Hill (mail Shenandoah)—See "Buildings—Industrial."

Kan., Olathe—See "Waterworks."

Bids Received

New York—T. F. Farrell, comr. Canals & Waterways, Albany, Jan. 14, removing old stone filled timber crib apron and constructing concrete apron and constructing new one at Northumberland Dam, Northumberland, Contr. M-23, from J. W. Holler, Inc., Fort Edward, $34,938; also repairing Glens Falls Feeder at various locations, Contr. M-24, from E. J. Anderson, Glens Falls, $82,694. Noted Jan. 6.

Contracts Awarded

Ala., Birmingham—See "Buildings—Industrial."

Kan., South Mound — Forestry Fish & Game Comn., State House, Topeka, concrete dam and park development at Lake McKinley, near here, to W. S. Fisher, Oswego, $33,634.

Calif., Montague—R. E. Swigart, secy. Montague Water Conservation Dist., outlet gates and accessories, also 70,000 lb. other fabricated metal work for Shasta River Dam, to Stockton Iron Wks., Stockton, $6,589. Noted Dec. 9.

Railways

Proposed Work

Missouri—See "Contracts Awarded."

Bids Desired

Missouri — See "Waterworks under St. Louis, Mo."

Contracts Awarded

Missouri—Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Ry. Exch. Bldg., St. Louis, grading, culverts and bridges on about 29.22 mi. second tracks on 4 sections between St. Louis and Jefferson City, to Winston Bros. Co., Buder Bldg., St. Louis, Mo., and 801 Globe Bldg., Minneapolis, Minn. Engrs. est. $1,250,000. Bids for laying tracks will be taken later. Total $3,000,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Massachusetts—Metropolitan Dist. Comn., Boston, plans excavating, filling, widening, etc. Beaver Dam Brook, tributary of Metropolitan Water System in Framingham and Natick. $100,000. J. R. Rablin, c/o owner, engr.

Fla., Fort Lauderdale — Plans dock improvements and dredging. $250,000.

Miss., Bay St. Louis — Road Protection Com. of Hancock Co. rejected bids Jan. 4, 9 mi. rein.-con. sea wall, incl. 48,800 ft. stepped type sea wall, 2,679 ft. 12 and 36 in. pipe, 261,500 cu.yd. excav., etc. Will readvertise. J. W. Billingsley, Interstate Bank Bldg., New Orleans, engr. Noted Dec. 30.

La., Hahnville—St. Charles Parish Police Jury, F. Schexnaydre, secy., making preliminary plans 8 mi. rein.-con. seawall along Lake Ponchartrain. $3,000,000. F. T. Payne, engr.

Wis., Milwaukee — Park Bd., F. Schumacher, secy., plans extending south shore rubble mound breakwater, $80,000; repairing inner breakwater at Iron St., $20,000; and completing lagoon, etc. $20,000.

Tex., Bishop—Bishop-Driscoll D. D., c/o A. S. Theiss & J. K. Williams, Bishop, voted $110,240 bonds, drainage project, approximately 35,000 acres, north and east of here. Private plans. Noted Jan. 6.

Calif., Newport Beach — Plans election $500,000 bonds, constructing east jetty and improving west jetty at entrance channel of harbor.

Calif., Oroville—Table Mountain Irrigation Dist. making plans 6,000 lin.ft. 20 in. cement pipe line from Power ditch to division point on distributing system, etc. S. J. Norris, Oroville, engr.

Calif., Wheatland—Camp Far West Irrigation Dist. voted $200,000 bonds irrigation work, incl. reservoir in Bear River.

Ont., London—Westminster Twp. making plans drainage system, incl. open ditch work in clay excav. $35,000. F. W. Farncombe, Dominion Savings Bldg., engr.

Bids Desired

New York — Feb. 1, by T. F. Farrell, comr. Canals & Waterways, State Pub. Wks. Bldg., Albany, broken stone protection along canal banks between Utica and Rome, Contr. M-25; and repairing timber work in canal terminal structures at Pier 93, North River; Piers 5 and 6, East River; West 138th St., Mott Haven; Long Island City; Greenpoint and Gowanus Bay, all in New York City, Contr. M-26; adv. E. N.-R. Jan. 20.

O., Cleveland—Jan. 21, by City, dredging Cuyahoga River. To exceed $50,000.

Ill., Savanna—Feb. 5, by T. Stagg, F. J. Stransky and W. Stiles, comrs. Savanna & York D. D., Carroll Co., at office F. J. Stransky, cleaning out main ditch, new diversion channel, etc. C. H. Young, Muscatine, ch. engr.; adv. E. N.-R. Jan. 20.

Ia., Washington—Feb. 2, by E. Grecian, aud. Washington Co., improving Highway Tile D. D. 8 and 9, 12,882 ft. 12- to 24-in. vitr. clay or concrete pipe, 34 brick or concrete manholes, 54 brick or concrete catch basins, and 1,620 ft. 10 in. vitr. clay or concrete catch basin connections. C. H. Young, ch. engr., Central States Eng. Co., Muscatine.

Neb., Palisade—See "Contracts Awarded."

Bids Received

Calif., La Mesa—La Mesa, Lemon Grove & Spring Valley Irrigation Dist., Jan. 5, (1) digging 6,700 ft. trench and backfill (2) constructing 6,700 ft. 16 in. pipe line (a) $\frac{3}{16}$ in. riveted steel plate pipe (b) $\frac{1}{4}$ in. riveted steel plate (c) Matheson Joint pipe (d) welded steel pipe (e) cast iron pipe, from Cumming Welding Co., c/o owners, (1) earth ditching $0.30 per ft., and rock ditching $2 per lin.ft.; from Los Angeles Mfg. Co., 2500 East 23rd St., Los Angeles, (2a) $2.85 (2b) $3.40 (2d) arc-welded $\frac{3}{16}$ in. $2.25 and arc-welded $\frac{1}{4}$ in. $2.85; from Western Metal Supply Co., (2c) $2.92; from U. S. Cast Iron Pipe & Fdry. Co., Wright & Callender Bldg., Los Angeles, (2e) $2.874. Noted Dec. 23.

Contracts Awarded

Minn., St. Cloud — Dredging approximately 80,000 cu.yd. in Lake George, to Minneapolis Dredging Co., 2429 University Ave. S. E., Minneapolis, at $0.36 per cu.yd., total approximately $28,200. Noted Jan. 13.

Neb., Palisade—F. C. Krotter will irrigate 10,000 acres land in Frenchman and Republican River Valleys near here, incl. 90 ft. earth dam and approximately 6.5 mi. canal, etc., by day labor. Private plans.

Calif., La Mesa — Directors La Mesa, Lemon Grove & Spring Valley Irrigation Dist., earth fill Lake Helix dam, to Stephens & Grable, La Jolla, $25,885. Noted Jan. 6.

Streets and Roads

Proposed Work

Massachusetts — State Hy. Dept., Boston, plans probably bituminous macadam paving highway in Hull through Rochaway to Nantasaket. To exceed $25,000. W. F. Williams, comr.

Mass., West Roxbury (Boston P. O.) — Dept. Pub. Wks., Boston, plans laying out and constructing Olmstead St. as highway, here. $25,000. J. H. Sullivan, comr.

Conn., Ansonia — Plans $100,000 bond issue, permanent paving various streets.

Conn., Meriden—City, Bd. Educ. plans grading at Jefferson High School. $30,000. Authorized $90,000 bond issue of which portion will be used for above. C. P. Prann, city engr.

N. J., Hopatcong—Bd. Freeholders Sussex Co. (Newton), plans 6 in. penetration paving 2.5 mi. road, here. $75,000. H. Snook, Newton, engr.

N. J., Toms River — Bd. Freeholders Ocean Co., plans 3½ mi. road from Lakewood to New Egypt and 2.6 mi. from Grovers Corner to Holmanville. J. M. Abbott, Toms River, engr.

Pa., South Williamsport (mail Williamsport) — Election Mar. 15, $75,000 bonds, paving and sewers in various streets. T. W. Bower, pres. council.

Pa., Waynesburg — Greene Twp. plans election, $125,000 bonds, improving Waynesburg-Greensboro Rd., in Greene Co. C. Ross, superv.

Maryland — State Rd. Comn., Garrett Bldg., Baltimore, making plans concrete and sheet asphalt paving various roads. $1,500,000. J. N. Mackall, chn.

Md., Baltimore—Making plans, sheet asphalt and concrete paving various streets, $1,250,000. S. Purcell, City Hall, highways engr.

Md., Baltimore—See "Unclassified."

W. Va., New Martinsville—Church Dist. plans election $140,000 bonds, improving roads in Wetzel Co. W. H. Ramp, co. engr.

S. C., Columbia—Voted $500,000 bonds, paving various streets.

Fla., Fort Lauderdale—Plans improving various streets. $150,000.

Tenn., St. Elmo (br. Chattanooga) — Plans election $100,000 bonds, improving various streets.

O., Akron — Comrs. Summit Co. plans widening 8.7 mi. Arlington St., and Akron-Wadsworth Rd.; traffic bound hard surfacing 31.4 mi. South Main St., Bath-Stow, Barberton-Greenich, New Portage-Uniontown, Stimson, Akron-Copley, Rimer, Hametown eastern, East Reservoir-Springfield, Center and Kelso Rds.

O., Canton—Comrs. Stark Co. take bids in spring improving 5 mi. Canton-North Canton Rd. $300,000. A. M. Wise, Canton, engr.

O., Cincinnati—Hamilton Co. plans grading, curbing, sidewalks, and concrete paving 5,300 sq.yd. Prosperity Pl. $25,168. E. A. Gast, Court House, engr.

O., Lisbon—Comrs. Columbiana Co. take bids about Jan. 31 paving 7.38 mi. Salem-Hanoverton Rd., slag aggregate and concrete $199,614, gravel aggregate and concrete $203,210, or limestone aggregate and concrete $210,229. L. C. Kirk, Lisbon, engr.

Wis., Milwaukee — Park Bd., F. Schumacher, secy., plans grading, sewers, paving, etc., Lake Shore Driveway. $102,000.

Ia., Muscatine—Voted $75,000 bonds, improving various streets. H. B. Caple, city clk.

Minn., Duluth—P. G. Philips, city comr., takes bids about Apr. 10, concrete paving, etc., 6,055 sq.yd. Dickson St. $26,614. J. Wilson, city engr.

Kan., Emporia—Takes bids in spring or summer grading, curbing, hardsurfacing, etc., 25,000 sq.yd. various streets. F. Humes, City Hall, engr.

Neb., Gordon—Takes bids about Feb. 15, 6 in. concrete paving, etc. 10,000 yd. various streets. Henningson Eng. Co., 301 Natl. Bldg., Omaha, engrs. Noted Dec. 2.

Constr. News page 37a

Streets and Roads (Continued)

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids asphalt paving, etc., 940 sq.yd. Eichelberger St. $6,950, and 1,735 sq.yd. 39th St. $7,050; also grading and concrete paving approximately 15,000 sq.yd. alleys in City Blocks 5252, 3017, 2857, 3565, 2967, 2847, 5463, 5478, 5677, 5747, 5354, and 985, $45,000. W. W. Horner, 300 City Hall, engr.

Tex., Abilene—Taylor Co. making plans grading and bridging, etc. 10.38 mi. Highway 1, 26 ft. $82,000. L. C. McCanlies, Abilene, resident engr.

Tex., Belleville—Austin Co. making plans grading, bridging, gravel and sand clay surfacing 18.2 mi. Highway 73-A, $300,000; also gravel and waterbound macadam paving 9.16 mi. highway from Ft. Bend Co. line to northwest line Road Dist. 3, $120,000. H. Schroeter, Belleville, engr.

Tex., Burnet — Burnet Co., election in February, $350,000 bonds, hardpaving highways near here. Total $700,000. Federal Aid appropriates $350,000 toward cost.

Tex., Carrizo Springs — Dimmitt Co. making plans grading, bridging, etc. 10.81 mi. Highway 55, 26 ft. $95,000. J. G. Lott, Carrizo Springs, co. engr.

Tex., Clarksville—Red River Co. making plans grading, bridging, etc., 6.269 mi. Highway 5-A, 26 ft. $53,600. M. P. Homeyer, Clarksville, resident engr.

Tex., Cold Springs — San Jacinto Co. making plans grading, bridging, gravel surfacing, etc. 4.6 mi. Highway 45, 18 ft. $37,000. J. E. Johnson, Cold Springs, co. engr.

Tex., Comanche—Comanche Co. making plans grading and bridging 9.67 mi. Highway 10. $56,000. W. H. Garrett, Comanche, engr.

Tex., Conroe — Montgomery Co. making plans grading, bridging and gravel surfacing 23 mi. Highway 35. $325,000. J. R. Spiller, Conroe, engr.

Tex., Cuero—De Witt Co. made plans and takes bids about Feb. 8, grading and bridging 15.05 mi. Highway 81 from Cuero to Gonzales Co. line. $170,000. Terrell Bartlett Engineers, c/o Calcasieu Bldg., San Antonio, engrs. Noted Dec. 2.

Tex., Laredo—Webb Co. making plans grading, bridging and gravel surfacing 12.46 mi. Highway 12-A, from Oilton west to county line, $127,000; also bituminous macadam paving 13.246 mi. same road from point 10.782 mi. east of Laredo to Aguilares, $130,000. T. E. Huffman, Laredo, engr. Noted Dec. 30.

Tex., Olmito (mail Brownsville) — A. Parker Securities Co., Brownsville, soon takes bids 4 ft. rein.-con. sidewalks on 40 mi. various streets, here. $45,000. Private plans.

Tex., Palestine — Anderson Co. making plans grading and bridging, etc., 4.5 mi. Highway 43, 26 ft. $87,400. E. W. Davis, Palestine, co. engr.

Tex., Panhandle — Carson Co. making plans grading and bridging 14.45 mi. Highway 33 from St. Francis to Panhandle. $41,000. L. O. Cox, Panhandle, engr.

Tex., Seguin — Guadalupe Co. making plans grading and bridging 18 mi. Highway 3-A, Seguin-Luling Rd. $44,000. H. J. Caulfield, Seguin, engr.

Tex., Sulphur Springs—Hopkins Co. making plans concrete paving 15.25 mi. Highway 11 from Hunt Co. line east to here. $420,000. J. E. Nolen, Sulphur Springs, engr.

Tex., Vernon—Wilbarger Co. voted $1,000,000 bonds, constructing various roads. J. V. Townsend, Vernon, co. judge.

Okla., Tulsa — Voted $60,000 bonds, paving various heavy traffic ways.

N. M., Clovis—Voted $100,000 bonds, paving approximately 13 mi. various streets in residential district. Devlin Eng. Co., Central Bldg., Amarillo, Tex., engrs.

Calif., Burlingame—Plans election bonds to exceed $25,000, repaving streets in various sections of city. J. James, city engr.

Calif., Montebello—Plans 7 in. vibrolithic concrete paving and ornamental lighting system on approximately 3 mi. Beverly Blvd. To exceed $25,000. Olmsted & Gillelin, Hollingsworth Bldg., Los Angeles, engr.

Ont., London—Middlesex Co. takes bids in February, concrete paving 6½ mi. various streets. $150,000. C. Talbot, County Bldgs., engr. Noted Dec. 16.

Ont., Ottawa—Bd. Control soon takes bids asphalt on concrete paving about 1,200 ft. Wellington St. $75,000. F. C. Askuith, City Hall, engr.

Ont., St. Catharines—Plans grading, concrete or asphalt paving and vitr. tile sewers in Facer St.; also drainage system for Facer St. Dist. $70,000. B. F. Lamson, City Hall, engr.

Constr. News page 38

Ont., Toronto—City voted $195,000, sheet asphalt on concrete paving 35,000 sq.yd. in connection with new entrance into Exhibition Grounds. R. C. Harris, City Hall, engr. Address Canadian Natl. Exhibition, Lumsden Bldg. Noted Nov. 4.

Bids Desired

N. Y., Brooklyn—Jan. 26, by J. J. Byrne, pres. Brooklyn Boro, grading, etc., Avenue H, West 33rd, East 91st and East 38th Sts.; grading, curbing, flagging, and asphalt on 6 in. concrete paving Empire Blvd., East 8th St., Albany and Autumn Aves.

N. Y., Buffalo—Jan. 31, by Commissioner Pub. Wks., vitr. brick or concrete paving and repaving Northland Ave., Cushing Pl., Purdy and Hopkins Sts., etc. $100,000. C. E. P. Babcock, Municipal Bldg., engr.

N. Y., Syracuse—Jan. 31, by Bd. Contr. & Supply, City Hall, A. Smingler, Jr., secy., paving and resurfacing 6 mi. various streets; adv. E. N.-R. Jan. 20.

West Virginia — Feb. 8, by State Road Comn., Charleston, improving roads and building bridges on Project 3098, Lincoln Co.; Project 3139, Mason Co.; Project 2049-A, McDowell Co.; Project 3214-C, Hardy Co.; Project 152-B, Randolph Co.; Project 152-C and 149-C, Randolph Co.; Project 3174-B, Tucker Co.; Project 156-A, Lewis Co.; and Project 3353, Jefferson Co. E. B. Carskadon secy.; adv. E. N.-R. Jan. 20.

Fla., Sanford—Jan. 27, by Bd. Comrs. Seminole Co., at office V. E. Douglas, clk. Circuit Courts, clearing, grading and paving 230,000 sq.yd. various roads incl. 8 bridges, etc. F. T. Williams, Sanford, engr.

Ala., Birmingham — Feb. 15, by City Comn., J. W. Jones, Jr., pres., curbing, guttering, sidewalks, and 2 in. bitulithic on 6 in. concrete paving, etc., 3 blocks 1st St., $18,700, and 10 blocks 16th St., $69,500, both 50 ft.; curbing, guttering, sidewalks and sheet asphalt with 1 in. binder course and 1½ in. wearing surface on 6 in. concrete paving, etc., 7 blocks 8th Ave., 50 ft., $77,800; and grading, curbing, guttering, sidewalks, etc., 6 blocks 15th St., Ensley, 30 ft., $11,600. A. J. Hawkins, city engr.

Ind., Auburn—Feb. 8, by Comrs. De Kalb Co., constructing Emma and Weller Rds. $26,179. E. Dawson, Auburn, aud.

Ind., Bloomfield — Feb. 8, by Comrs. Greene Co., constructing Sharp and Gamblill Rds. $30,216. G. R. Hudson, Bloomfield, aud.

Ind., Brazil—Feb. 8, by Comrs. Clay Co., constructing W. W. Moore Sr. Rd. $27,610. R. E. Barnhart, Brazil, aud.

Ind., Decatur—Feb. 8, by Comrs. Adams Co., constructing Burk and Armstrong Rds. $29,715. M. Jaberg, Decatur, aud.

Ind., Greencastle—Feb. 15, by Comrs. Putman Co., concrete paving Albert A. Daggy Rd. $41,650, Frank Downes Rd. $38,536, and A. G. Brown Rd. $47,650. W. D. Lovett, Greencastle, aud.

Ind., Rensselaer—Feb. 7, by Comrs. Jasper Co., constructing Jordan and Garfield Rds. $28,950. S. C. Robinson, Rensselaer, aud.

Ind., Rising Sun—Feb. 7, by Comrs. Ohio Co., constructing Chas. H. Vinup Rd. $26,715. H. E. Williams, Rising Sun, aud.

Mich., Mt. Clemens—Jan. 22, by W. Lehner, engr. Macomb Co., Mt. Clemens, two course graveling 4.25 mi. County A. D. 103, 16 ft., and 2.75 mi. A. D. 104, 9 ft.; concrete paving 3.5 mi. A. D. 91, and 3.25 mi. A. D. 90, 20 ft. Noted Apr. 19.

Wis., Janesville — See "Contracts Awarded."

Ia., Iowa City—Jan. 25, at office Auditor Johnson Co., gravel surfacing 15,965 cu.yd. Primary Project 473, Primary Road 1. G. M. Griffith, Iowa City, co. engr.

Kan., Council Grove—Feb. 11, by Clerk Morris Co., fine grading and vitr. brick or concrete surfacing 13,331 sq.yd. Federal Aid Project 257-B, and C. J. McKenzie, Council, co. engr.

Kan., Manhattan — Jan. 28, by Clerk Riley Co., improving 3.442 mi. Federal Aid Project 327-C, 51,050 cu.yd. earth and 12,531 cu.yd. rock excav., 160 ft. corrugated metal pipe, 48,981 lb. reinforcing, 7,670 ft. guard fence, etc. A. J. Rhodes, Manhattan, co. engr. Noted Jan. 13.

Missouri—Jan. 28, by State Hy. Dept., Jefferson City, grading and 30 ft. grading approximately 63 mi. roads in 11 counties; 18 ft. graveling approximately 60 mi. in 6 counties; 9 ft. concrete paving 13.06 mi. road in Audrain and Callaway Counties; 18 ft. chats surfacing 8.41 mi. roads in Dade Co.; and 18 ft. concrete paving 1.672 mi. road in Moniteau Co. B. H. Piepmeier, ch. engr.

Mo., St. Louis—Feb. 8, by Bd. Pub. Serv., 208 City Hall, vitr. brick paving, etc., 4,315 sq.yd. Kraft St. $33,720, and 1,680 sq.yd. Wilson Ave. $13,200; asphaltic c[illegible] pete paving, etc., 2,340 sq.yd. Amelia S[illegible] $17,200, and 295 sq.yd. Farlin St. $2,7[illegible] asphalt paving, etc., 2,605 sq.yd. Dol[illegible] St. $14,880, 1,835 sq.yd. Bates St. $14,2[illegible] and 2,345 sq.yd. 9th St. $15,240; rein.-co[illegible] paving, etc., 2,050 sq.yd. 9th St. $11,00[illegible] and warrenite bitulithic paving, etc., 3,8[illegible] sq. yd. Fillmore St. $26,320, 7,165 [illegible] sq.yd. Louisiana St. $50,000, and 7,850 [illegible] sq.yd. Pennsylvania Ave. $57,680. W. W. H[illegible]rner, 300 City Hall, engr.

Mo., St. Louis — Feb. 15, by Bd. Pub. Serv., 208 City Hall, grading and concrete paving approximately 18,890 sq.yd. alleys in City Blocks 1817, 1571, 2593, 2634, 2675, 2781-N, 3391, 3600, 3601, 4253, 5158, 5197, 5321, 5356, 5655, and 5866. $54,770. W. W. Horner, 300 City Hall, engr.

Tex., Alice—Jan. 26, by State Hy. Comn., Austin, grading, bridging, etc., 9.788 mi. Highway 12-A, Jim Wells Co., 26 ft. $51,000. F. E. Hess, Alice, resident engr. Noted Dec. 30.

Tex., San Antonio—Jan. 26, by State Hy. Comn., Austin, 2 course rolled rock asphalt paving 9.152 mi. Highway 3, 18 ft. $60,000. R. E. Killmer, San Antonio, engr.

California—Jan. 31, at office State Hy. Comn., Sacramento, grading, crushed gravel or stone surfacing, etc. 0.26 mi. road at Mossdale Bridge, San Joaquin Co. R. M. Morton, Forum Bldg., Sacramento, engr.

Calif., Los Angeles—Jan. 31, by Supervs. Los Angeles Co., excavating and concrete paving, etc., 320,679 sq.ft. Centinela Ave. Rd. Dist. Impvt. 309. To exceed $75,000. G. W. Jones, Hall of Records, engr.

Calif., Oceanside—Jan. 26, by J. H. Landes, city clk., curbing, guttering, walks and grading 10,850 cu.yd. Nevada St., etc. To exceed $25,000. R. L. Loucks, city engr.

Calif., Santa Rosa—Feb. 15, by W. S. Coulter, clk. Sonoma Co., grading, etc., 10 000 cu.yd. Sect. F, Guerneville-Jenner Highway; also grading and concrete paving 1,112 cu.yd. Two-Rock-Tomales Highway. E. A. Peugh, Santa Rosa, co. surv.

Calif., Sacramento—H. G. Denton, city clk., taking bids grading, walks and asphaltic concrete paving, etc., D, F and 45th Sts., etc., in Wright and Kimbrough Tract. To exceed $25,000. A. J. Wagner, city engr.

Calif., San Diego—Jan. 31, by Common Council, grading, curbing, sidewalks and 5 in. asphaltic concrete paving, etc., 57,385 sq.ft. Columbia and Laurel Sts. F. A. Rhodes, city engr.

Bids Received

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Jan. 12, grading, etc. Fosdick and 95th Aves., from O'Brien & Kurth, Inc., 8525 137th St., Jamaica, $4,153 and $5,265 respectively, and 98th St. from Welsh Bros. Contg. Co., 14 Queens St. $9,198; grading and sheet asphalt paving Beach 117th St., from Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn $19,870, Steuben St., from Sicilian Asphalt Paving Co., 41 Park Row, New York City $13,950, 95th and 98th Sts., from Uvalde Asphalt Paving Co., 1 Bway., New York City $11,570 and $24,210 respectively; asphalt block paving Hancock St. from Carberry Block Corp., 186 Remsen St., Brooklyn, $26,398. Noted Jan. 6.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., Jan. 11, from F. Gabrielle, 2750 Creston Ave., grading, curbing, guttering, sidewalks, Holland Ave. $2,653, Perry Ave. $4,585, and Astor Ave. $14,863; from Gramaglia Bros., 48 East Kingsbridge Rd., Leland Ave. $7,187; from Carroll & Rice, 204 East 45th St., Perry Ave. $54,615; from I. F. Cavaluzzo, 1300 Cromwell Ave., Caroll Pl. $12,160, and Yates Ave. $4,780; from C. Turiano Contg. Co., 1911 Coddington Ave., Cruger Ave. $15,945; from L. Di Minna, 2336 Lorrilard Pl., Metcalf Ave. $10,187, and Sands Pl. $7,681. Noted Jan. 6.

New Jersey—State Hy. Comn., Trenton, Jan. 10, grading, bridging, granite block and asphalt paving Sect. 3, Route 1 extension, between Oakland and Larch Aves., Jersey City, from Montrose Constr. Co., Grand Central Palace, New York City, N. Y., $3,244,951. Noted Dec. 23.

South Carolina—State Hy. Dept., Columbia, Jan. 13, from J. L. Carroll, 2930 Devine St., Columbia, constructing 6.1 mi. Route 121, State Project S-619, Aiken Co. $48,076, 10.9 mi. Route 40, Federal Aid Project 267-B, Georgetown Co. $85,476, and 12.1 mi. Route 6, State Project S-576, Lexington Co. $57,062, from Cherokee Constr. Co., Blacksburg, 7.9 mi. Route 161, State Project S-646-A $79,149, 2 mi. Route 22, State Project S-627-A $14,019, 6.7 mi. Route 22, Federal Aid Project 265-B $54,385, all Fairfield Co., from William & Watson, Hickory,

Streets and Roads (Continued)

Miss., 8.5 mi. Routes 4 and 30, Federal Aid Project 281, Clarendon Co. $75,874, from Harrison, Walters & Prater, White Pine, Tenn., 3.3 mi. Route 22, State Project S-627-C, Fairfield Co. $38,306, from J. A. Livingston, North, 3.1 mi. Route 121, State Project S-599, Lexington Co. $10,572, from P. R. Ashby & Co., Laurinburg, N. C. 6.2 mi. Route 2, Federal Aid Project 38-A, Oconee Co., alternate 1 $220,534, from Bollenger Paving Co., Greenville, alternate 2 $196,680, and from J. F. Blankenship, Greenwood, 10.3 mi. Route 30, Federal Aid Project 115-C, Orangeburg Co. $67,852; from A. V. Hooks, 14 Dartmouth Pl., Charlotte, N. C., treated timber bridge on Federal Aid Project 281, Clarendon Co. $4,616, and overhead bridge on Route 50, Federal Aid Project 266-B, Kershaw Co. $8,171, from J. L. Carroll, 2930 Devine St., Columbia, 3 treated timber bridges on Federal Aid Project 267-B Georgetown Co. $10,619, from R. G. Kennedy, Batesburg, rein.-con. and steel bridge over Turkey Creek, on Route 21, Federal Aid Project 230-B, Edgefield Co. $13,627, and from G. B. Dean, Spartanburg, rein.-con. bridge, on Federal Aid Project 115-C, Orangeburg Co. $5,736; from W. B. Boyle Co., Sumter, triple 12 x 12 ft. and 10 x 12 ft. culverts also rein.-con. bridge over Wateree Creek, State Project S-627-C, Fairfield Co. $30,-924. Noted Jan. 6.

Florida—State Road Dept., Tallahassee, Jan. 5, grading and paving with **(A)** concrete **(B)** sheet asphalt **(C)** bituminous concrete **(D)** bituminous macadam, 13 mi. Project 54, Leon Co., from Couch Constr. Co., Dothan, Ala., **(A)** $347,186, and from Deen & Yarborough & Ebesbach Constr. Co., Tampa, **(B)** $455,072 **(C)** $460,547, 9.1 mi. Project 59, Jefferson Co., from Noonan-Lawrence, Pensacola, **(A)** $240,108 and from Duval Eng. Constr. Co., Dyal Upchurch Bldg., Jacksonville, **(B)** $293,030 **(C)** $291,116, 7.1 mi. Project 53-A, Lake Co., from Wesco Co., Mt. Dora, **(B)** $222,-196, from Manly Constr. Co. & C. R. Scott, Leesburg, **(C)** $226,395, and from Oman & Brady, Eustis, **(D)** $236,883; clearing and grubbing 8.27 mi. Project 683-C, Palm Beach Co., from Lake Worth Constr. Co., Lake Worth, $40,265. Noted Dec. 23.

Ind., Evansville — Comrs. Vanderburgh Co., Jan. 10, concrete paving 7 mi. Voight Rd., from Globe Constr. Co., 6 West Side Bank Bldg., $206,000. Engrs. est. $252,679. Noted Dec. 23.

Contracts Awarded

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to B. Turecamo Contg. Co., 8706 16th Ave., sheet asphalt paving West 6th St. $13,114, to D. J. McCoy Asphalt Corp., East 53rd St. and Avenue U, 58th St. $10,650, and 68th St. $8,397; to W. J. McHale Contg. Co., 1250 Jefferson Ave., grading, etc., Cortelyou Rd. $1,867, East 12th St. $3,113, East 26th St. $3,326, and East 39th St. $3,056. Grand total $43,523. Noted Jan. 6.

New York—A. W. Brandt, comr. Dept. Pub. Wks., Albany, reconstructing 0.31 mi. Repair Contr. 3156, Highway 1247, Moscow-Geneseo Rd., Livingston Co., to M. J. McMahon, Du Bois, Pa., $128,137, engrs. est. $144,570; also sheet piling for reconstructing Job 1554, on Highway 141, Kingston-Ellenville Rd., Part 3, Ulster Co., to Hackett Constr. Co., Inc., New York City, $14,060. Noted Jan. 6.

Florida—State Road Dept., Tallahassee, grading and concrete paving 13 mi. Project 54, Leon Co., to Noonan-Lawrence, Pensacola, $350,271, and 9.1 mi. Project 59, Jefferson Co., to Higgison Constr. Co., Perry, $241,867; bituminous concrete paving 7.1 mi. Project 53-A, Lake Co., to Manly Constr. Co. & C. R. Scott, Leesburg, $226,-395; clearing and grubbing 8.27 mi. Project 683-C, Palm Beach Co., to Lake Worth Constr. Co., Lake Work, $40,265. Grand total $858,798.

Kentucky—State Hy. Dept., Frankfort, **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project),** to Kniser & Oller, Leitchfield, grading, etc., 11.264 mi. Shepherdsville-Lebanon Junction Rd., S. A. P. 46-B, Bullitt Co. $76,399, to Mason Constr. Co., West Point, 4.882 mi. Greensburg-Columbia Rd., F. A. P. 143-B, Green Co. $51,228, to Perkins, Darnell & Williams, Hodgenville, 9.896 mi. Cecilia-Vertrees Rd., S. A. P. 85-A, Hardin Co. $68,363, to L. E. Carter & Co., La Center, 13.198 mi. Paducah-Lovelaceville Rd., S. A. P. 9½-A, McCracken Co. $93,642, to Ellis, Smeathers & Brantley, Owensboro, 8.573 mi. Frenchburg-Mt. Sterling Rd., F. A. P. 158-A, Menifee Co. $91,465, 3.032 mi. Frenchburg-Mt. Sterling Rd., F. A. P. 158-B, Montgomery Co. $23,038, and 18.705 mi. Hazard-Hyden Rd., S. A. P. 28-A and B, Perry and Leslie Counties $328,035; to G. M. Eady Co., Brook and Lee Sts., Louisville, bituminous macadam surfacing 3.1 mi. Hodgenville-Elizabethtown Rd., F. A. P. 118-B, Larue Co. $77,514, and to Craig & Jordan, Blanchester, O., 3.958 mi. Falmouth-Alexandria Rd., S. P. 21½-B, Campbell Co. $92,142; to Gorrell, Barrow & Kirkpatrick, Russellville, rock asphalt surfacing 9.427 mi. Russellville-Auburn Rd., F. A. P. 156-A, Logan Co. $266,547, to E. L. Traughber, Adairville, 8.944 mi. Russellville-Elkton-Hopkinsville Rd., F. A. P. 123-B and 157-A, Todd Co. $216,563; to E. A. Bashford, Jr., Russellville, O., waterbound macadam (local stone) surfacing 10.956 mi. Shelbyville-Taylorsville Rd., S. A. P. 46-A, Shelby and Spencer Counties, $126,058; to Corum Bros., Madisonville, gravel surfacing 9.353 mi. Beech Grove-Sebree-Poole Rd., S. A. P. 2½-A, Webster Co., $73,686. Grand total $1,584,680. Noted Dec. 9.

O., Cincinnati—Comrs. Hamilton Co., grading and tar bound macadam repaving, etc. 9.800 sq.yd. Graves Rd., and 10, 400 sq.yd. Brill Rd., to J. S. Slone, 2312 Mound Ave., Norwood, $22,631 and $24,453 respectively. Engrs. est. $25,835 and $27,450 respectively. Noted Jan. 13.

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis, concrete paving 14.925 mi. Federal Aid 102, Sects. A and B, State Rd. 62, Vanderburgh and Posey Counties, to Globe Constr. Co., 6 West Side Bank Bldg., Evansville, $344,958. Noted Jan. 6.

Illinois—Board Local Impvts., Room 207, City Hall, grading, curbing, guttering and asphalt on 6 in. concrete paving, etc., portions Slocum, Jerome, Jarlath and North Rockwell Sts., Kimball, North La Verne, North Lawler, Leland, Wilson, Major, Birchwood, Fargo, Jarvis, Sherwin, Chase, North California, North Fairfield, North Washtenaw and North Talman Sts., to White Paving Co., 1735 Fullerton St., portions 118th St., South Springfield, and grading, curbing, guttering, sewers and asphalt wearing surface and binder course on 8 in. concrete paving portion South Ashland Ave., to R. F. Conway, 844 Rush St.; grading, curbing, guttering and asphalt on 6 in. concrete paving portions East 83rd, 84th, 85th, 103rd, 104th, 105th, 106th and 108th Sts., East 103rd and East 104th Pl., South Wabash, South Michigan, Indiana, Prairie, Calumet, Vernon, Eberhart and Rhodes Aves., to Amer. Asphalt Paving Co., 133 Washington St., portions George St., North Kenneth, North Kilbourn, North Kolmar, Barry and Wellington Aves., to Ryan Co., 4500 Division St., North Rockwell St., Glenlake, North Maplewood, Talman, North Washtenaw, Rosemont and Granville Aves., to J. V. McCarthy Co., 77 West Washington St.; grading, curbing, guttering and 6 in. concrete paving portions West 69th and 70th Sts., South Talman, South Washtenaw and South Fairfield Aves., to J. A. Sackley Co., 4608 Belmont Ave.

Wis., Janesville—Rock Co., C. E. Moore, comr. highways, will construct 22 mi. gravel roads, by own forces. To exceed $25,000. F. W. Lee, Courthouse, co. engr.

Buildings — Commercial

Proposed Work

Mass., Boston — APARTMENT — H. O. Apthrop, 15 State St., having plans prepared by Bigelow & Wadsworth, 120 Tremont St., 5 story and basement, brick and stone, plain foundation, 10 Otis Pl., $250,000.

Mass., Boston—GARAGE—North Station Garage Co., F. G. Barrows, 40 Central St., plans 6 story rein.-con. and brick garage (600 cars) causeway Beverly and Haverhill Sts. To exceed $150,000. Engineer and architect not selected.

Mass., Boston—OFFICE—H. F. Winslow, 30 State St., having plans prepared by Parker, Thomas & Rice, 177 State St., 14 story and basement, 60 x 210 ft., rein.-con., steel and limestone, concrete pile foundation, State and Exchange Sts. To exceed $150,000.

Mass., Dorchester (Boston P. O.)—THEATRE—J. M. Greenberg, c/o W. A. Dykeman, archt., 15 Exchange St., Boston, having plans prepared 1 and 2 story and basement, brick, steel and stone, plain foundation, here. $150,000.

Mass., East Boston (Boston P. O.) — THEATRE, STORE and OFFICE—J. M. Greenburg, c/o Miller & Levi, archts., 46 Cornhill, Boston, having preliminary plans prepared 2 story and basement, brick and steel, plain foundation, here. To exceed $150,000.

Mass., Malden (br. Boston)—STORE and OFFICE—Clifford Blade & Co., 364 Main St., having sketches made by C. F. Springall, 64 Sprague St., 4 story and basement, brick and stone, plain foundation, South Main and Exchange Sts. $150,000.

Mass., Medford (br. Boston)—THEATRE—J. R. Grainger, c/o Fox Film Corp., 850 10th Ave., New York City, N. Y., plans brick theatre, here. Engineer and architect not selected.

Mass., Milford — THEATRE — Milford Realty Corp., E. Austin & D. Stoneman, 333 Washington St., Boston, plans theatre, Park, Main and Congress Sts. To exceed $150,000. Engineer and architect not selected.

Mass., Newburyport—BANK—Newburyport Five Cent Savings Bank, 74 State St., having sketches made by T. M. James Co., 3 Park St., Boston, 1 story and basement, brick, granite and stone bank. $150,000.

Mass., Newton (Ind. br. Boston) — THEATRE, STORE and GARAGE — J. Michel, E St., South Boston, having plans prepared by R. Testa, 224 Hanover St., Boston, 1 story and basement, 70 x 140 ft. theatre, and 1 story, 200 x 230 ft. garage, brick and steel, plain foundation, Auburndale Sq., here. $250,000.

Mass., Plymouth—TEMPLE—Plymouth Lodge, Masonic Building Com., having plans prepared by Kendall Taylor & Co., 142 Berkeley St., Boston, 3 story and basement, 52 x 91 ft., brick and steel, Court St. $200,000.

Mass., Stoneham—STORE and OFFICE—J. A. Swenson, 406 Barristers Hall, Boston, having plans prepared by S. S. Eisenberg, 46 Cornhill, Boston, brick, Main St., here. $150,000.

Mass., Westfield — DORMITORY — Commonwealth of Massachusetts, Dept. Pub. Health, State House, having sketches made 3 story and basement, brick dormitory. $150,000. Private plans.

Mass., Winchendon — THEATRE and STORE — F. Sharby, 249 Roxbury St., Keene, N. H., having sketches made by J. A. Tuck, Inc., Park Sq. Bldg., Boston, 1 and 2 story and basement, brick and steel, here. $160,000.

Mass., Worcester—STORE and APARTMENT—B. Fradkin, 12 Winter St., plans brick and steel, Winter St. $150,000.

Mass., Worcester — THEATRE, STORE and OFFICE—Crystal Investment Co., C. W. Hodgdon, mgr., 142 Berkley St., Boston, having sketches made by Mowll & Rand, 21 School St., Boston, 1 and 2 or more story and basement, brick, steel and stone, plain foundation, Grafton Sq. $150,-000 or more.

R. I., Providence—THEATRE—Marcus Loew, Inc., 154 Bway., New York City, plans theatre and office building, Weybosset, Page and Pine Sts., here. C. W. and G. L. Rapp, 231 West 43rd St., New York City, archts. Noted Sept. 30.

R. I., Providence — WAREHOUSE and STORAGE—Belcher & Loomis Hardware Co., 89 Weybosset St., having preliminary plans prepared rein.-con. and brick, West Exchange St. $150,000. Perry & Whipple, Hospital Trust Bldg., engrs.

Conn., Hartford — APARTMENT and STORE—N. Kleinman, 106 Magnolia St., having plans prepared by G. Zunner, archt. and engr., 182 High St., 3 story and basement, 80 x 100 ft., brick and steel, Standish St. and Wethersfield Ave. $150,000.

N. Y., Bronxville — APARTMENT HOTEL — Hutchinson Hall, Inc., c/o Walker & Gillette, engrs. and archts., 128 East 37th St., New York City, having plans prepared 8 story, brick, steel and stone, plain foundation, Parkway Rd., here. $500,000.

N. Y., Brooklyn—APARTMENT—Kings Co. Constr. Corp., c/o A. J. Simberg, archt., 873 48th St., having plans prepared 4 story, 40 x 100 ft., brick, steel and stone, plain foundation, Bay Parkway and 74th St. $160,000.

N. Y., Brooklyn—ARENA and OFFICE—H. Fugazy, 188 Montague St., and F. W. Lang, 1559 Bway., New York City, having sketches made brick, steel and stone, De-Kalb and Hudson Aves., Navy and Lafayette Sts. $6,000,000. Private plans.

N. Y., Buffalo—Y. M. C. A., 247 Madison Ave., New York City, soon takes bids 4 story, brick, steel and stone, plain foundation, Michigan Ave. and Cypress St., here. $200,000. Private plans.

N. Y., Flushing—HOSPITAL—Flushing Hospital takes bids about Feb. 1, brick, steel and stone addition, plain foundation, Franconia Ave., here. $500,000. York & Sawyer, 100 East 42nd St., New York City, archts. and engrs. Noted July 15.

N. Y., New York—APARTMENT—B. F. & J. Realty, Inc., c/o Meisner & Uffner, archts., 565 East Tremont Ave., having

Constr. News page 39

Buildings—Commercial (Continued)

plans prepared 6 story, 100 x 140 ft., brick, steel and stone, plain foundation, Watson Ave. $250,000.

N. Y., New York—APARTMENT—Birnbaum Constr. Co., c/o Mesner & Uffner, archts., 565 East Tremont Ave., having plans prepared 6 story, 75 x 112 ft., brick, steel and stone, plain foundation, College Ave. $400,000.

N. Y., New York—APARTMENT—City Discount Co., c/o L. Stillman, archt., 1993 Jerome Ave., having plans prepared 6 story, 78 x 95 ft., brick, steel and stone, plain foundation, 238th St. near Bailey Ave. $250,000.

N. Y., New York—APARTMENT—D. A. Cushman Realty Corp., c/o C. P. H. Gilbert, archt., 1 Madison Ave., having plans prepared 16 story, brick, steel and stone, plain foundation, 9th Ave. and 20th St. $450,000.

N. Y., New York — APARTMENT — M. Jackson, c/o C. S. Clark, archt., 443 East Tremont Ave., having plans prepared 6 story, brick, steel and stone, plain foundation, 201st St. near Bainbridge Ave. $150,000.

N. Y., New York—APARTMENT—H. Lee, c/o Moore & Landseidel, archts., 148th St. and 3rd Ave., having plans prepared 15 story, brick, steel and stone, plain foundation, Pelham Parkway. $2,500,000.

N. Y., New York—APARTMENT—Fox Freeman Holding Co., Inc., c/o L. Pisciotta, archt., 565 East Tremont Ave., having plans prepared 5 story, 90 x 120 ft., brick, steel and stone, plain foundation, Webster Ave. $200,000.

N. Y., New York—APARTMENTS—Diljo Constr. Co., c/o Springsteen & Goldhammer, archts., 32 Union Sq., having plans prepared two 5 story, 132 x 165 ft., and 118 x 130 ft., brick, steel and stone, Bronx Park East. $250,000.

N. Y., New York—APARTMENT—Eight Hundred Twelve Park Avenue Corp., c/o J. E. R. Carpenter, archt., 598 Madison Ave., having plans prepared 14 story, 102 x 140 ft., brick, steel and stone, plain foundation, 46 East 75th St. $1,140,000.

N. Y., New York—APARTMENT—S. S. & J. Realty Corp., c/o Lucian Pisciotta, archt., 563 East Tremont Ave., having plans prepared 6 story, brick, steel and stone, plain foundation, Van Courtlandt Ave. $260,000.

N. Y., New York — APARTMENT — S. Wimk, 2061 Bway., plans 6 story, brick, steel and stone, plain foundation, Anderson Ave. and 166th St. $750,000. Engineer and architect not selected.

N. Y., New York—LOFT—Powers Cafeteria, c/o L. A. Abramson, archt., 46 West 46th St., having plans prepared 4 story, brick, steel, stone, plain foundation, 1019 6th Ave. $200,000.

N. Y., New York — OFFICE — Western Union Telegraph Co., 195 Bway., plans rein.-con., brick, steel and stone, plain foundation, West Bway. between Thomas and Worth Sts. $5,000,000. Private plans.

N. Y., New York—THEATRE—Ellwood Realty Co., c/o Cohen & Siegel, archts., 45 West 57th St., having plans prepared brick, steel and stone, plain foundation, Ogden Ave. $250,000.

N. J., Camden—DEPARTMENT STORE—Sears Roebuck Co., L. J. Rosenwald, genl. mgr., Roosevelt Blvd., Phila., Pa., plans department store, Short St. and Entrance Rd., here, $750,000.

N. J., Elizabeth—Y. M. C. A., F. Starkey, secy., Y. M. C. A. Bldg., 1164 East Jersey St., having plans prepared by J. F. Jackson, archt. and engr., 137 East 45th St., New York City, N. Y., 4 story, brick, steel and stone, plain foundation, Madison and Lafayette Sts. $400,000. Noted May 13.

N. J., Newark—DEPARTMENT STORE—L. Bamberger & Co., Halsey St., soon lets contract 16 story, 109 x 141 x 281 ft., brick, steel and stone, plain foundation, Washington, Bank and Halsey Sts. $10,000,000. J. Hunt, 30 North Michigan Ave., Chicago, Ill., archt. M. C. Schwab, 30 North Michigan Ave., Chicago, Ill., engr. Noted Dec. 30.

N. J., West New York—BANK—West New York Trust Co., A. Weisberg, pres., soon takes bids 2 story, 50 x 100 ft., brick, steel and stone, plain foundation, Bergenline Ave. $150,000. W. L. Stoddart, 50 East 41st St., New York City, archt. Noted Dec. 16.

Pa., Drexel Hill—THEATRE—Stanley Co. of America, 19th and Race Sts., Phila., plans theatre, 2,000 seating capacity, Beaumont Rd. and Garrettsford St., here. $500,000. Hoffman-Henon Co., Finance Bldg., Phila., archts.

Pa., Phila. — BANK and OFFICE — Colonial Trust Co., 13th and Market Sts., having plans prepared by Ritter & Shay, Packard Bldg., rein.-con., brick and steel addition, plain foundation.

Pa., Pittsburgh—APARTMENT—C. C. McKalip Co., Magee Bldg., having preliminary plans prepared by H. Hornbostel, Hardy Hayes Bldg., 1 story and basement, 40 x 175 ft., limestone and steel apartment. $700,000.

Pa., Pittsburgh—BANK—Union Trust Co., Union Trust Bldg., having plans prepared by E. P. Mellon, 350 Madison Ave., New York City, 1 story and basement, 43 x 132 ft., stone, 5th and Atwood Sts. $200,000.

Pa., Pittsburgh — CLUB — Embrassy Beach Club, c/o A. Peck, Peoples Bank Bldg., having plans prepared by J. T. Steen & Sons, Vandergrift Bldg., 7 story and basement, 145 x 400 ft., brick and steel, Highland Ave. $1,000,000.

Md., Baltimore—APARTMENT—H. D. Bennett, 2114 Allendale St., plans 7 story, rein.-con., brick and steel, Bateman Ave. and Hilton St. $200,000. Private plans.

D. C., Wash. — SHOWROOM and GARAGE—A. P. Clark, Jr., archt., 811 14th St. N. W., soon lets contract showroom and garage, 17th and M Sts. N. W., for Emerson & Orme, 1620 M St. N. W. $300,000.

Fla., Gainesville — HOSPITAL — Comrs. Alachua Co., c/o O. H. Thomas, chn., soon takes new bids hospital. $150,000. Wilson, Berryman & Kennedy, Palmetto Bldg., Columbia, S. C., archts.

Miss., Jackson—STATION—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., soon lets contract A. F. Blaess, ch. engr., 2 story, rein.-con., steel and marble station, here. $250,000. F. L. Judd, engr. buildings. Noted Mar. 4.

La., Shreveport — AUDITORIUM — See "Bridges."

O., Cincinnati—COTTAGE—Dept. Welfare, 9th and Oak Sts., Columbus, J. E. Harper, dir., having plans prepared by H. B. Briggs, Ohio-Hartman Bldg., Columbus, 2 story and basement, 40 x 120 ft., 2 wings, brick, stone and concrete, concrete pile foundation, at Lengview State Hospital for Insane, here. $145,000.

O., Cleveland — STORE, OFFICE, APARTMENT and THEATRE — G. M. Meyers, c/o Best & Hoefler, B. F. Keith Bldg., having plans prepared 2 story and basement, 60 x 140 ft., brick, Pearl and State Rds. $225,000.

O., Cleveland — WAREHOUSE — B. H. Kroger Grocery & Baking Co., 813 Main St., Cincinnati, indefinitely postponed construction 2 and 4 story, 140 x 408 ft., brick and rein.-con., East 55th and Hydraulic Ave., here. E. H. Nieman, 3816 Shaw Ave., St. Louis, Mo., archt. Noted Dec. 16.

O., Columbus — AUDITORIUM — James Theatre Enterprises, 28 West Broad St., having plans prepared by C. H. Crane, 548 Griswold St., Detroit, Mich., 3 story, 90 x 120 ft., brick, steel, terra cotta, and concrete auditorium, 1,800 seating capacity, West Broad St.

O., Hamilton—HOSPITAL—Mercy Hospital, S. O'Conner, in charge, 116 Dayton St., having revised plans prepared by G. Barkman, archt., Realty Bldg., and C. J. Kiefer, mechanical engr., 901 Schmidt Bldg., Cincinnati, 4 story and basement, brick addition, Dayton and Sun Sts. $350,000.

O., Troy—HOSPITAL—Schenk & Williams, archts., 3rd Natl. Bldg., Dayton, soon take bids 2 and 3 story and basement, brick, stone and rein.-con., plain foundation, Wayne and Summit Sts., for Stouder Hospital Com., C. C. Willard, chm. $200,000. Noted Dec. 30.

Ind., Terra Haute—HOTEL and STORE—Terra Haute Hotel Co. having revised plans prepared by W. E. Russ, Meridian Life Bldg., 10 story and basement, 155 x 162 ft., rein.-con., brick and steel hotel and store building. $1,000,000. Seventh St. Hotel Co., A. R. Pick, pres., Chicago, Ill., lessee. Noted May 27.

Ill., Chicago — APARTMENT — A. W. Dickinson, 4040 La Porte St., having plans prepared by C. W. Lampe & Co., 155 North Clark St., 3 story and basement, 125 x 220 ft., brick, Milwaukee, Belle Plains and Cicero Aves. $350,000.

Ill., Chicago — APARTMENT—Koenigsberg & Weisfeld, archts., 155 North Clark St., preparing plans and soon takes bids 7 story and basement, 100 x 150 ft., rein.-con. and brick, 4536-42 Magnolia Ave., for S. Clifford & Co., 111 West Washington St. $1,000,000.

Ill., Chicago—APARTMENT and STORE—A. W. Dickson, 4040 La Porte St., having plans prepared by C. W. Lampe & Co., 155 North Clark St., 6 story and basement, 75 x 125 ft., rein.-con. and brick, 4057 Milwaukee Ave. $250,000.

Ill., Chicago — OPERA HOUSE and OFFICE — S. Insull, 72 West Adams St., plans 18 to 21 story, covering 75,000 sq.ft. floor space, Markey St. on East Bank Chicago River between Washington and Madison Sts. $14,000,000-$16,000,000.

Ill., Rockford—STORE and OFFICE—H. Shaw, associates, archts., 104 South Michigan Ave., Chicago, plans and take bids about Jan. 20, 2 or 5 story and basement, 78½ x 126½ ft., rein.-con., brick, steel and stone, West State St., here, for C. F. Talcott, 121 North Church St.

Wis., Kenosha—THEATRE, STORE and HOTEL—North Shore Development Co., 433 Exchange St., had plans prepared by R. Lavne & Co., 822 West 70th St., Chicago, Ill., and soon takes bids 5 story and basement, 125 x 125 ft., brick, concrete and terra cotta, Elizabeth St. $450,000.

Neb., Omaha—THEATRE—World Realty Co., c/o W. R. McFarland, 1506 Douglas St., having preliminary plans prepared by C. H. Crane, E. G. Kiehler & B. A. Dore, 400 Huron Bldg., rein.-con., brick, stone, steel and terra cotta theatre, approximately 2,500 seating capacity, on 160 x 160 ft. site, 16th and Douglas Sts. $1,000,000.

Mo., Louisiana—HOSPITAL—Otis Smith Hospital Assn., c/o C. G. Buffum, pres., soon takes bids 3 story and basement, rein.-con., brick and stone hospital. $150,000. G. D. Barnett, 913 Syndicate Trust Bldg., St. Louis, archt. Noted Sept. 30.

Mo., St. Louis—POLICE HEADQUARTERS—Metropolitan Police Dept., c/o A. C. Orrick, pres., takes bids about Mar. 1, superstructure 5 story and basement, 138 x 218 ft. police headquarters, and 3 story, 140 x 150 ft., gymnasium, both rein.-con., stone and granite, 12th St. from Clarke to Spruce Sts. Mauran, Russell & Crowell, Arcade Bldg., archts. Noted Aug. 19.

Tex., Amarillo—BANK and OFFICE—First Natl. Bank, c/o W. H. Fuqua, pres., having preliminary plans, etc., prepared 16 story and basement, rein.-con. and brick, plain foundation, 6th and Polk Sts. $1,000,000.

Tex., Amarillo—OFFICE—C. Fiske, c/o G. C. Carlander, archt., Massie Bldg., takes bids about Feb. 1, 10 story and basement, 60 x 140 ft., rein.-con. and brick, rein.-con. foundation, 8th and Polk Sts. $800,000. Noted July 29.

Tex., Breckenridge—HOTEL—Breckenridge Hotel Co., c/o E. C. Burch, had plans prepared by D. S. Castle Co., 701-4 Alexander Bldg., Abilene, and takes bids about Feb. 10, 5 story and part basement, rein.-con., brick and stone, plain foundation $250,000. Noted Dec. 2.

Okla., Tulsa.—HOSPITAL—Tulsa Memorial Hospital, c/o R. Stogill, First Baptist Church, 400 South Cincinnati Ave., having plans prepared by L. I. Shumway, 712 Alexander Bldg., 6 story and basement hospital, 12th and Utica Sts. Noted July 1.

N. M., Raton—HOTEL—Kew & Walsh, archts., Amarillo, Tex., soon lets contract 5 story, 80 room hotel, here, for J. DeLisio, Raton. $175,000.

Wash., Seattle — OFFICE — F. Struve, Stuart Bldg., having plans prepared by J. Graham, Dexter Horton Bldg., 2 story (ultimately 6 story) and basement, 120 x 240 ft., rein.-con., steel and terra cotta, 6th St. and Olive Way. $400,000. Noted Apr. 1.

Calif., Berkeley — HOSPITAL — Alta Bates, Inc., c/o C. C. Cuff, archt., 1313 Central Bank Bldg., Oakland, having plans prepared 6 story and basement, brick and concrete, Regent and Webster Sts. $500,000.

Calif., Eureka — STORE, HOTEL and STAGE DEPOT—Pickwick Stages Co., 5th and Mission Sts., San Francisco, plans 7 story and basement, probably rein.-con., 4th and F Sts. $350,000. Engineer and architect not selected.

Calif., Los Angles—APARTMENT—S. C. Lee, archt., Petroleum Securities Bldg., preparing preliminary plans 6 story and basement, 60 x 120 ft., rein.-con. apartment, 6075 Kenmore Ave. $400,000. Owner's name withheld.

Calif., San Francisco — AUDITORIUM, LODGE, etc.—Mystic Shrine of San Francisco, W. H. Woodfield, Jr., chn. building com., 315 Montgomery St., plans probably 25 story auditorium and lodge, etc., incl. gymnasium, in downtown section. $1,500,000-$3,000,000. Engineer and architect selected soon.

Bids Desired

Mass., Boston — THEATRE — Loews Orpheum Theatre, M. Loew, 431 Washington St., taking bids altering 1 story and basement, brick, plain foundation, Washington St. $150,000. Private plans.

Mass., Springfield — APARTMENT — S. Sannella, doctor, 575 Main St., taking bids 4 story and basement, brick and stone, plain foundation, Warren St. and Ft. Pleasant

Constr. News page 40

Buildings—Commercial (Continued)

Ave. $150,000. H. C. Hearne, 1387 Main St., archt.

Conn., Hartford — APARTMENT — See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—THEATRE—See "Contracts Awarded."

Pa., Dormont—THEATRE—Jan. 21, by W. M. Swarts, owner, and F. W. Bail, archt., 1152 Hanna Bldg., Pittsburgh, 2 story and part basement, 96 x 146 ft., brick, steel and stone, Potomac Ave. $200,000.

Pa., Pittsburgh—RESEARCH LABORATORY—Jan. 23, by Natl. Tube Co., Frick Bldg., 2 story and basement, 58 x 109 ft., brick on hollow tile, Forbes St. $150,000. E. Stotz, Monongahela Bank Bldg., archt. Noted Nov. 4.

D. C., Wash.—APARTMENT—Minkoff & Smith (owner and builder), 1301 Shepherd St., N. W., taking sub-bids apartment, 811 Quincy St. $175,000. G. T. Santmyer, 917 15th St. N. W., archt.

Ala., Birmingham—GARAGE and REPAIR SHOP—Jan. 28, by City Comn., J. W. Jones, pres., 2 story, 75 x 150 ft., fireproof, 19th St. $165,000. D. O. Whilldin, 515 North 21st St., archt. Noted Sept. 23.

Ky., Louisville—OFFICE—Feb. 1, by F. G. Breslin, c/o Breslin Sand Co., 32nd and Market Sts., 15 story, 95 x 175 ft., rein.-con., brick, stone and steel, concrete pile foundation, Bway. $1,500,000. Joseph & Joseph, Francis Bldg., archts. Noted May 21, 1925.

O., Canton — HOSPITAL — Apr. 1, by Comrs. Stark Co., 4 story and basement, 75 x 250 ft. tuberculosis hospital, on Louis-Harrisburg Rd. $500,000. A. L. Thayer, New Castle, Pa., archt.

Ill., Chicago—APARTMENT—H. Dalsey, archt., 64 West Randolph St., taking bids 12 story and basement, 40 x 100 ft., rein.-con., brick and terra cotta, 11-13 West Division St., for H. K. Wolf, c/o architect. $500,000. Noted Jan. 6.

Ill., Chicago—APARTMENT—See "Contract Awarded."

Ill., Chicago — APARTMENT — E. A. Thorson, 2051 North Spaulding Ave., masonry contract 3 story, 100 x 173 ft., brick, 4434-42 North Robey St., to J. L. Erickson & Son, 1424 Elmdale Ave. Archts. est. $225,000.

Ill., Chicago—GARAGE—B. Mittleman, 11 South La Salle St., masonry and carpentry contract 3 story, 103 x 215 ft., brick, North Clark St., to Calner Constr. Co., 134 North La Salle St. Archts. est. $250,000.

Mo., St. Louis—BANK—Feb. 1 (extended date), by Wedemeyer & Nelson, archts., Wainwright Bldg., 1 story and basement, 60 x 150 ft., rein.-con. and stone, Bway., for Bremen Bank, 3600 North Bway. $200,000. Noted Dec. 9.

Mo., St. Louis—EXCHANGE—Jan. 24, by Southwestern Bell Telephone Co., 11th and Pine Sts., 4 story and basement, 100 x 125 ft., rein.-con., brick, terra cotta and stone addition, Locust and Beaumont Sts. L. R. Timlin, 1917 Southwestern Bell Telephone Bldg., archts.

Mo., St. Louis—MEMORIAL OFFICE—Jan. 25, by Episcopal Church of United States, c/o W. Scarlett, dean, 1210 Locust Blvd., 6 story and basement, 106 x 106 ft., rein.-con., brick, stone and granite, Locust St. near 13th St. $400,000. Jamieson & Spearl, 1116 Arcade Bldg., archts. Noted Dec. 2.

Ark., Hope—THEATRE—See "Contracts Awarded."

Calif., Los Angeles—GARAGE—F. C. Hill, Merchants Natl. Bank Bldg., taking bids (from selected contractors) 13 story and basement, 78 x 155 ft., rein.-con., Spring St. south of 4th St. $500,000. K. Macdonald Jr., Spring Arcade Bldg., archt. Noted Dec. 2.

Calif., Redlands—CLUB—Marston, Van Pelt & Maybury, archts., 25 South Euclid Ave., Pasadena, taking bids 2 story, frame and stucco, incl. swimming pool, etc. here, for Y. M. C. A. $150,000. Noted Sept. 30.

Calif., San Francisco — APARTMENT — See "Contracts Awarded."

Bids Received

Mass., Norwood — MUNICIPAL — Town, c/o W. G. Upham, archt., Jan. 10, 2 story and basement, brick and stone, plain foundation, West, Matahna and Market Sts., from Frankini Bros., 30 Mystic Ave., Medford. $295,013. Noted Dec. 30.

N. Y., Albany — OFFICE — State Office Site & Building Comn., Executive Chamber, Capitol, 32 story office building, from Seglin Contr. Co., Buffalo, $2,522,200; sanitary work from A. R. Dowd, Grand Central Terminal, New York City, $15,998. Noted Dec. 9.

N. J., Asbury Park — CONVENTION HALL — E. F. Hetrick, mayor, Jan. 11, brick, steel and stone convention hall, amusement pier, and theatre, etc., from Di Riso Bros Constr. Co., 50 East 42nd St., New York City, $2,379,390. Noted Jan. 13.

Contracts Awarded

Vt., Burlington — AUDITORIUM — City, Building Dept., City Hall, 2 story, 105 x 120 ft., rein.-con. and stone, plain foundation, Main and South Union Sts., to J. E. Cashman, 77 College St. Archts. est. $150,000. Noted Dec. 16.

Mass., Boston—OFFICE—John Hancock Mutual Life Insurance Co., W. L. Crocker, pres., 197 Clarendon St., 4 story, brick and limestone addition, St. James Ave., Clarendon, and Stuart Sts., to L. P. Soule & Son Co., 80 Boylston St. Archts. est. $1,000,000. Noted Jan. 13.

Mass., Boston—STORE and OFFICE—Elm Realty Co., Inc., c/o Miller & Levi, archts., 46 Cornhill, 3 story and basement, brick and steel, plain foundation, Dock Sq. and Elm Sts., to Hub Constr. Co., 333 Washington St. Archts. est. $150,000. Noted Jan. 6.

Mass., Springfield — THEATRE and OFFICE — A. S. Friend, 285 Madison Ave., New York City, theatre and office building, Main St., here, to J. D. Harrison Constr. Corp., 285 Madison Ave., New York City.

Mass., Taunton—HOTEL—J. T. Wilbur & H. Mell, 69 Main St., altering and constructing brick addition, to A. C. Sawyer, North Dighton. Archts. est. $150,000. Noted Dec. 30.

Conn., Hartford—APARTMENT—A. D. Carani, 5 Vernon St., will build three 3 story and basement, 65 x 145 ft., brick, Hopkins St., by day labor. $160,000. Golden Storrs & Co., 983 Main St., archts.

N. Y., Brooklyn — APARTMENT — Montague Terrace Corp., 189 Montague St., 11 story, brick, steel and stone, plain foundation, Montague Terrace, to W. Kennedy Constr. Co., 215 Montague St. Archts. est. $550,000. Noted Oct. 28.

N. Y., New York—APARTMENT—Sammin Holding Corp., S. Minskoff, c/o E. Roth, archt., 1440 Bway., will build 12 story, 65 x 201 ft., brick, steel and stone, plain foundation, Madison Ave. and 87th

1926 the Record!

Each year since 1923 we have taken pleasure in reporting a greater volume of construction than for the year preceding. Last year was the same—1926 smashed the 1925 record.

This year's total is $2,851,786,000 for contracts reported in Construction News, compared with $2,559,443,000 in 1925. Thus, the year shows a gain of 11 per cent in value.

Exactly the same gain is shown for *number* of projects—35,644 in 1926, compared with 31,993 in 1925. Following are the number of jobs reported in the various stages in 1925:

	Proposed	Bids Desired	Bids Received	Contracts	Total 1926	Total 1925
Waterworks	1,163	706	242	660	2,771	2,565
Sewers	980	645	309	678	2,612	2,241
Bridges	472	460	180	471	1,583	1,442
W. Disp.	47	26	8	17	98	95
Dams	35	20	2	28	85	60
Railways	112	7	3	67	189	153
E. & D.	254	194	53	174	675	579
S. & R.	3,349	2,375	999	2,988	9,711	8,783
Ind. Bldgs.	1,524	398	22	1,489	3,433	2,984
Other buildings	5,893	1,788	359	3,299	11,339	10,378
F. G.	122	516	287	379	1,304	1,120
Unclassified	753	380	171	540	1,844	1,593
Total 1926	14,704	7,515	2,635	10,790	35,644	31,993
Total 1925	13,693	6,806	2,251	9,243	.....	.....

And now for
1927
Another Big Year

Constr. News page 41

Buildings—Commercial (Continued)

St. $2,000,000. Work will be done by separate contracts.

N. Y., New York—BANK—Natl. City Bank of New York, 55 Wall St., 2 story, brick, steel and stone, plain foundation, Bway. and Canal St., to Starrett Bros., 392 Madison Ave. Archts. est. $150,000.

N. Y., New York—BANK—Union Dime Savings Bank, West 40th St. and 6th Ave., altering and constructing brick, steel and stone addition, plain foundation, West 40th St., to Fountain & Choate, 110 East 23rd St. Archts. est. $500,000. Noted Sept. 2.

N. Y., New York — OFFICE — Sigley Realty Corp., S. and W. Glatzer, 152 West 42nd St., brick, steel and stone, plain foundation, West 46th St., to Shroder & Koppell, 347 Madison Ave. Archts. est. $600,000. Noted Sept. 23.

N. Y., New York—OFFICE and LOFT—Bruck-Weiss Millinery, Inc., 6-8 West 57th St., brick, steel and stone, plain foundation, 20 West 57th St., to F. T. Ley Co., 578 Madison Ave. Archts. est. $250,000.

N. Y., New York—THEATRE—Loews, Inc., 1540 Bway., will build brick, steel and stone, plain foundation, Ludlow St. Work will be done by separate contracts, under owner's supervision. Noted Dec. 9.

N. Y., Syracuse — EXCHANGE — New York Telephone Co., 140 West St., New York City, 6 story, 90 x 125 x 130 ft., rein.-con., brick and steel, plain foundation, South State St., to Dawson Bros., Union Bldg. Archts. est. $650,000. Noted Nov. 18.

N. J., Atlantic City — CONVENTION HALL — Bd. City Comrs., City Hall, general contract convention hall, to M. B. Markland Co., 3540 Atlantic Ave.; fire protection system, to Globe Automatic Sprinkling Co., 2055 Washington Ave., Phila., Pa.; elevators, to Otis Elevator Co., 16 and Sansome Sts., Phila., Pa.; ice skating rink, to Pennsylvania Eng. Co., 1119 North Howard St., Phila., Pa.; heating system, to Riggs Distler Co., Inc., 516 5th Ave., New York City, N. Y.; plumbing, to W. G. Cornell Co., 19th and Vine Sts., Phila., Pa.; and electrical work, to Electric Equipment Co., 16 West Ohio Ave. This corrects report in Dec. 9 issue.

Pa., Pittsburgh—STORE and OFFICE—Steinbach & Jubelier, Penn Ave., general contract 4 story and basement, 60 x 100 ft., brick, steel and terra cotta, Penn Ave., to Schuetz, Schreiner & Clyde, May Bldg. Archts. est. $150,000.

Pa., Phila.—GARAGE—J. E. Fieldstein, archt., Otis Bldg., 1 story and basement, 80 x 240 ft., rein.-con. and brick, plain foundation, Leiper and Frankford Sts., to H. G. Walters Co., 412 North 40th St., for Stanley Constr. Co., Lincoln Bldg. Noted Dec. 30.

Pa., Phila.—THEATRE and STORE—Ballinger Co., archts., 12th and Chestnut Sts., 1 story and basement, 105 x 137 ft. theatre, and 2 story and basement, 64 x 153 ft. store, both rein.-con., brick and steel, plain foundation, Ridge and Leverington Aves., to G. Kessler Constr. Co., 1735 North Marvine St., for Felt Bros., Packard Bldg Noted Jan. 6.

Md., Baltimore—THEATRE—M. Loew, 1540 Bway., New York City, 3 story, 17 x 60 ft., rein.-con. and brick addition, here, 21 Clay St., to North-Eastern Constr. Co., Lexington Bldg.

O., Akron — STORE and GARAGE — Officials M. O'Neil Co., South Main St., 6 story and basement, 217 x 460 ft., incl. reception room, music hall, etc., South Main St. near State St., to Carmichael Constr. Co., Central Savings & Trust Bldg., to exceed $2,000,000. Noted Dec. 16.

Ind., Indianapolis — THEATRE and STORE—P. F. Goodrich, 1109 Hume Mansur Bldg., 2 story and basement, 110 x 210 ft., rein.-con., brick and steel, Woodlawn and Virginia Aves., to L. Colvin, Continental Bank Bldg. Archts. est. $400,000.

Ill., Chicago—APARTMENT—B. Brauer, 1342 South Harding Ave., masonry contract 3 story, 50 x 119 ft., brick, 4432-50 Grenshaw Ave., to S. Fishkin, 3059 Ainslie St. Archts. est. $165,000.

Ill., Chicago—APARTMENT—M. Leviton, archt., 160 North La Salle St., and Leichenko & Esser, associated archts., 38 South Dearborn St., masonry, concrete and carpentry contract 6 story and basement, 50 x 125 ft., rein.-con., brick and terra cotta, Roscoe St. and Paulina Ave., to Lind Constr. Co., 6404 South State St. Archts. est. $250,000.

Ill., Chicago—APARTMENT—H. Zisook (owner and builder) 1209 East 55th St., will do carpentry work 10 story and basement, 90 x 150 ft., rein.-con. and brick, 5719-21 Kenwood Ave. Will soon take bids for rest of work. Archts. est. $800,000. T. R. Bishop & Son, 35 South Dearborn St., archts.

Constr. News page 42

Ill., Chicago—APARTMENT—S. Clifford & Co., 11 West Washington St., masonry contract 6 story and basement, 50 x 135 ft., rein.-con., brick and stone, 5317-19 Kenmore Ave., to G. Cassidy & Co., 4554 Bway. Ave.; carpentry contract, to A. Johnson, 4519 North Richmond St. Archts. est. $425,000. Noted Dec. 23.

Ill., Chicago—HOTEL and STORE—C. Frazier, archt., 30 North Dearborn St., masonry contract 4 story, 40 x 200 ft., brick and stone 208-10 South Ashland Ave., to J. H. Prusenr, 3727 Leland Ave., for F. S. Demeter, Ashland Ave. and Van Buren St. Archts. est. $250,000. Noted Dec. 16.

Ill., East St. Louis—BANK and OFFICE—First Natl. Bank, Collinsville and Missouri Aves., 6 story and basement, 60 x 130 ft., brick and concrete addition, Missouri Ave. near Collinsville Ave., to Wimmer Contg. Co., Victoria Bldg., St. Louis, Mo. Archts. est. $500,000.

Ill., Villa Park — THEATRE, STORE, OFFICE and APARTMENT — Kreig & Hetherington, archts., 105 North Clark St., Chicago, general contract 2 story and basement, 90 x 170 ft., rein.-con. and brick, Clark and Villa Sts., to Fridstein & Co., 111 West Washington St., Chicago, for Syndicate, c/o contractor. Archts. est. $300,000.

Ark., Hope—THEATRE—J. P. Brundidge will build 75 x 150 ft., 40 ft. high, concrete, brick and steel theatre, 2nd St., by day labor, under supervision Witt, Seibert & Halsey, archts., 807 Texarkana Natl. Bank Bldg., Texarkana. Archts. est. $150,000. Former bids rejected. Noted Jan. 6.

S. D., Huron—BANK—Natl. Bank of Huron, H. A. Maxfield, cashier, 4 story and basement, 50 x 112 ft., rein.-con., brick, terra cotta and Kasota stone, Dakota Ave. and 3rd St., to A. Moorman & Co., Chamber of Commerce Bldg., St. Paul, Minn., approximately $150,000.

Mo., St. Louis — HOSPITAL — St. Anthonys Hospital, Grand and Chippewa Sts., 5 story, attic and part basement, 58 x 210 ft., rein.-con., brick and stone hospital addition, also 1 story, 24 x 50 ft., brick and concrete garage and stable, Arkansas and Chippewa Sts., to Klutho, Ranft & Klutho, archts., 915 Syndicate Trust Bldg., by sub-contracts. Archts. est. $500,000. Noted Dec. 30.

Mo., St. Louis—THEATRE and OFFICE—C. H. Crane, archt., 542 Griswold St., Detroit, Mich., 17 story and basement, 244 x 360 ft., rein.-con., brick, stone, steel and terra cotta office and theatre, 5,000 seating capacity, Grand and Washington Blvds., here, to Aronberg & Fried, Inc., 21 East 40th St., New York City, N. Y., for William Fox Film Co., 55th St. and 10th Ave., New York City, N. Y. Archts. est. $3,250,000. Noted Dec. 16.

Ariz., Tucson — AUDITORIUM—Temple of Music & Art Institute, 1 and 2 story, 120 x 120 x 193 ft., rein.-con. and stucco auditorium, 900 seating capacity, also 3 smaller buildings containing concert hall, stores, tea rooms, etc., Tucson St., to H. Brown, Tucson, $165,000.

Wash., Centralia — HOTEL — Malty-Thurston Co., Seattle, 8 story and basement, 102 room, concrete and steel hotel, here, to Western Constr. Co., Seaboard Bldg., Seattle, $325,000.

Calif., Long Beach—APARTMENT—J. A. Moore, et al, 5 story and basement, probably rein.-con., Ocean Front, to Allen & Bird, Bway. Bldg., Pasadena, $250,000.

Calif., Los Angeles—HOTEL—W. H. Anderson, 12 story and basement, 60 x 125 ft., rein.-con., 553 South Grand Ave., to Kinne & Westerhouse, 220 Black Bldg., $700,000. C. F. DeLong, 633 South Hope St., lessee.

Calif., Oakland—APARTMENT—R. A. Smith (owner and contractor), c/o A. Young, archt., 339 15th St., will build 3 story and basement, rein.-con. apartment, Rose St. near Telegraph Ave. $150,000.

Calif., Oakland—COLUMBARIUM—California Crematorium, 4499 Piedmont Ave., rein.-con., granite and marble, Piedmont Ave., to Conner & Conner, 1733 Francisco St., Berkeley, approximately $165,000. Noted Nov. 11.

Calif., Pasadena—APARTMENT—J. A. Moore, et al., 2 story, frame and stucco, South El Molino Ave., to Allen & Bird, Bway. Bldg., approximately $150,000.

Calif., San Francisco—APARTMENT—E. V. Lacey, Hearst Bldg., will build 6 story and basement, rein.-con., 21st and Lexington Sts., by day labor. $150,000. Clausen & Amandes, Hearst Bldg., archts.

Calif., San Francisco — GARAGE — H. Fleischaker, et al., 2 story, rein.-con., Van Ness Ave. and Market St., to Dinwiddie Constr. Co., Crocker Bldg., approximately $150,000.

Buildings—Industrial

Proposed Work

Mass., Cambridge (Boston P. O.) — FACTORY—Sterling Knit Goods Co., W. C. O'Brien, treas., Stiles St., plans factory, Stiles St. $50,000 or more. Engineer and architect not selected.

R. I., Pawtucket — BAKERY — N. E. Bakery Co., J. Collier, pres., plans rein.-con., brick and steel, plain foundation $150,000. McCormick Co., 49 Park Pl., New York City, engrs.

Conn., Hartford—PRINTING PLANT—W. H. Lockwood Sons, 175 Pearl St., had plans prepared by Buck & Sheldon, Inc., 60 Prospect St., 2 story, 78 x 93 ft., brick and steel, Edwards St. $50,000.

Conn., Norwalk — FACTORY — Rubber Co., Inc., 127 Washington St., South Norwalk, had plans prepared 3 story, rein.-con. and brick, Water St., here. $50,000. Private plans.

Conn., Waterbury — FACTORY—Patent Button Co., 41 Brown St., New Haven, having plans prepared by Westcott & Mapes, 139 Orange St., New Haven, brick addition, here. $40,000 or more.

Conn., Westport — GARAGE and REPAIR SHOP—L. N. Gault, Riverside Ave., having plans prepared by Fletcher-Thompson, Inc., 542 Fairfield Ave., 1 story, rein.-con., brick and steel, Riverside Ave. $40,000 or more.

N. Y., Andover—ELECTRICAL PLANT—Niagara Lockport & Ontario Power Co., Lafayette Bldg., Buffalo, plans addition to electrical plant, here, and extending transmission line to here. $300,000. Private plans.

N. Y., Brooklyn—GENERATING STATION—Brooklyn Union Gas Co., 176 Remsen St., having plans prepared 3 story, 105 x 190 ft., rein.-con., brick and steel, plain foundation, 406 Gardiner St. $600,000. Private plans.

N. Y., Brooklyn—STORAGE and SHOP—Brooklyn Union Gas Co., 176 Remsen St., plans 2 story, 65 x 225 ft., rein.-con., brick and steel, plain foundation, 524 Withers St. $275,000. Private plans.

N. Y., Lancaster—MALLEABLE METAL PLANT—Amer. Malleable Metal Co. plans reconstructing plant, recently destroyed by fire. $150,000.

N. Y., Lockport — POWER PLANT — Niagara Falls Power Co., Canal Basin, plans constructing power units between here and Lake Ontario. To exceed $500,000. Private plans.

Pa., Derry—MANUFACTURING—Westinghouse High Voltage Insulator Co. having preliminary plans prepared by B. H. Prack, Martin Bldg., N. S. Pittsburgh, and soon takes bids 1 story, irregular shaped brick and steel addition. $100,000.

Pa., New Castle Junction (mail New Castle) — MANUFACTURING — Universal Sanitary Mfg. Co., New Castle, had plans prepared by Austin Co., 16112 Euclid Ave., Cleveland, O., 1 story, brick and steel plant, here. $50,000.

Va., Grove Hill (mail Shenandoah)—HYDRO-ELECTRIC PLANT—Shenandoah River Power Co., Shenandoah, plans hydro-electric plant and 17 ft. dam, near here.

O., Philo—POWER PLANT—Ohio Power Co. soon takes bids 165,000 kw. turbine unit, with 220,000 kw. capacity. $17,000,000.

O., Toronto — POWER PLANT — Ohio River Edison Co., having plans prepared additional 33,000 kw. unit, incl. boilers, etc., at Toronto Super Power Station. Stevens & Wood, Inc., 120 Bway., New York City, N. Y., engrs. and constructors.

Ind., Lafayette — FACTORY — Haywood Tag Co., Main and 7th Sts., takes bids about Jan. 25, 1 story and basement, 100 x 120 ft., steel and brick factory. $45,000. W. Scholem, Lafayette, archt.

Ill., East St. Louis — PLANT — Lewin Metals Corp., 1-39 Branch St., St. Louis, Mo., purchased site and plans plant, near here. $500,000.

Wis., Milwaukee — LITHOGRAPHING PLANT — Gugler Lithographing Co., 694 Bway., having preliminary plans prepared 6 story and basement, 60 x 62 ft., brick and concrete addition, plain foundation. To exceed $40,000. Foundation for above awarded to Universal Constr. Co., 315 Chestnut St.

Tex., Harlingen — TEXTILE MILL — Valley Cotton Mill Co., c/o P. M. Keller, takes bids after Feb. 20, 10,000 spindle cotton mill, 250 loom capacity. $300,000 incl. machinery. Private plans. Noted Aug. 5.

Buildings—Industrial (Continued)

Calif., Los Angeles—STORE—California Produce Terminal Co., 412 Western Pacific Bldg., had preliminary plans prepared 1 story, 400,000 sq.ft. floor space, fireproof, in vicinity 9th St. bridge. V. Prescott, 412 Western Pacific Bldg., engr.

Ont., Toronto—EXHIBITION—Canadian National Exhibition, Lumsden Bldg., having plans prepared by Chapman & Oxley, Northern Ont. Bldg., 1 story, 212 x 450 ft., rein.-con., brick and steel machinery hall and electrical building, plain foundation, Exhibition Park. $700,000. Noted Sept. 16.

Bids Desired

Mass., Malden (br. Boston) — GAS PURIFICATION PLANT — See "Contracts Awarded."

R. I., Providence—REPAIR and SERVICE GARAGE—See "Contracts Awarded."

N. Y., Brooklyn — ICE PLANT — See "Contracts Awarded."

N. Y., Buffalo—STEEL FABRICATING SHOP—See "Contracts Awarded."

N. Y., Long Island City—REPAIR—Jan. 25, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, repair company building, Poyer St. and Barnwell Ave., here.

N. Y., Matteawan (mail Glenham) — POWER HOUSE—Feb. 9, by Commissioner Mental Hygiene, Capitol, Albany, constructing central power house, at Matteawan State Hospital, here. S. W. Jones, Albany, state archt.; adv. E. N.-R. Jan. 20. Noted Apr. 29.

N. J., Newark — FACTORY — Griffith Piano Co., 1016 Broad St., having plans prepared by G. E. Jones, 9 Clinton Ave., 15 story, brick, steel and stone, plain foundation, 605-607 Broad St. $1,000,000.

Ala., Birmingham—GARAGE and REPAIR SHOP—See "Buildings—Commercial."

O., Cleveland—PACKING HOUSE— Jan. 25, by Kreinberg & Krasny, W. A. Krasny, 3117 West 63rd St., 2 story and basement, 100 x 126 ft., brick and rein.-con., West 65th St. $100,000. M. Weis, 617 Union Bldg., archt. Noted Oct. 7.

Ind., Lafayette—RAILROAD SHOPS—Bd. Directors Chicago, Indianapolis & Louisville R.R., A. S. Kent, ch. engr., 608 South Dearborn St., Chicago, Ill., taking bids 1 story, 77 x 500 ft., brick and steel railway shops, here. $250,000. Noted Jan. 13.

Ind., Michigan City—FACTORY—Royal Metal Mfg. Co., and Newhouse & Bernham, archts., 4623 Drexal Blvd., Chicago, Ill., taking bids 1 story, 240 x 240 ft., brick factory. $100,000.

Ill., Chicago — POWER HOUSE — See "Contracts Awarded."

Tex., San Antonio—BOTTLING PLANT —Delaware Punch Co., San Marcos and Granado Sts., taking competitive bids, 1 story, 70 x 160 ft., rein.-con., tile and stucco, plain foundation. $90,000. L. Harrington & Co., c/o Builders Exch. Bldg., engrs. and archts.

Calif., Bakersfield — MACHINE and BLACKSMITH SHOPS — Jan. 31, by F. E. Smith, clk. Kern Co., machine and blacksmith shops, 4th Rd. Dist. C. H. Biggar, Bank of Italy Bldg., archt.

Contracts Awarded

Mass., Boston—FACTORY—M. B. Cobb, 230 Harrison Ave., altering 7 story, 45 x 65 ft., brick, 64-72 Kneeland St., to A. W. Withey Co., 228 Harrison Ave. Archts. est. $40,000.

Mass., Malden (br. Boston)—GAS PURIFICATION PLANT—Malden & Melrose Gas Co., 200 Devonshire St., Boston, 1 story, rein.-con., Commercial St. $40,000. Work will be done by separate contracts under supervision C. H. Tenney Co., engrs., 200 Devonshire St., Boston. Noted Dec. 23.

R. I., Providence—REPAIR and SERVICE GARAGE—D. A. Marwell, 76 Peckham Ave., will build 1 story, rein.-con., North Main St. $40,000. Work will be done by separate contracts. Private plans.

N. Y., Brooklyn—ICE PLANT—Rubel Coal & Ice Co., 197 Glenmore Ave., will build 1 story, 100 x 100 ft., rein.-con., brick and steel, plain foundation, 2223 Utica Ave. $85,000. Work will be done by separate contracts under supervision E. M. Adelsohn, engr. and archt., 350 Stone Ave.

N. Y., Buffalo—ASSEMBLY PLANT—Chevrolet Motor Co., Delaware and Cromwell Aves., 1 story, 160 x 245 ft. assembly plant, Delaware Ave., to J. W. Cooper Co., Fidelity Bldg., $250,000.

N. Y., Buffalo—STEEL FABRICATING SHOP—Bethlehem Steel Co., Lackawanna, will build rein.-con., brick and steel, Abbey St., here, by day labor. $160,000.

N. Y., Long Island City—FACTORY—Hasbrouck Flooring Co., J. Hasbrouck, pres., 501 East 70th St. New York City, 4 story, 75 x 130 ft., rein.-con., brick and steel, plain foundation, 7th and Pierce Aves., to Tucker Contr. Co., 103 Park Ave., New York City. Archts. est. $150,000.

N. Y., Middle Village—POWER HOUSE —Metropolitan Recourses, 111 Bway., New York City, rein.-con., brick and steel power house, here, to Caye Constr. Co., 256 Fulton St., Brooklyn. Archts. est. $250,000. Noted Sept. 16.

N. J., Kearny—PLANT—Western Electric Co., 5 story, 60 x 198 ft., and 1 story, 80 x 198 ft., brick and steel additions, to H. Steers, 17 Battery Pl., New York City, N. Y., $140,000.

N. J., Paulsboro—BOILER and POWER PLANT—Vacuum Oil Co., rein.-con., brick and steel, plain foundation, to Stone & Webster, 120 Bway., New York City, N. Y. Archts. est. $2,000,000.

Pa., Connellsville — MANUFACTURING —Connellsville Mfg. Co., 1 story, 130 x 245 ft., brick and steel plant, to Austin Co., Union Trust Bldg., Pittsburgh. Archts. est. $50,000.

Pa., Ephrata—SILK MILL—Lockwood Greene & Co., archts. and engrs., 1 Pershing Sq., New York City, N. Y., 1 story and basement, 254 x 258 ft., rein.-con., brick and steel, plain foundation, here, to Hughes-Foulkrod Co., Commonwealth Bldg., Phila., for Stunzii Sons Silk Co., Ephrata. $250,000. Noted Dec. 23.

Pa., Phila.—SUB-STATION—Phila. Electric Co., 10th and Chestnut Sts., 1 story and basement, 62 x 144 ft., rein.-con. and brick, plain foundation, 24th and Washington Sts., to F. W. VanLoon, Perry Bldg.

Pa., Pittsburgh — ROUND HOUSE — Baltimore & Ohio R.R. Co., H. A. Lane, ch. engr., Baltimore, Md., general contract 1 story, 32 x 96 ft. brick and timber extension, concrete foundation, Blair St. here, to Ellington Miller Co., 417 South Dearborn St., Chicago, Ill. Engrs. est. $40,000.

Pa., Rouseville—PLANT—Pennzoil Co., general contract 1 and 2 story, various sized additions, incl. receiving building, wax, boiler, barrel and tank houses, to Rust. Eng. Co., 311 Ross St., Pittsburgh. Archts. est. $250,000.

Pa., Scranton—PLANT—F. Wesel Mfg. Co., 70-72 Cranberry St., Brooklyn, N. Y., 1 story, 200 x 500 ft., rein.-con., brick and steel, plain foundation, here, to D. R. Richardson Constr. Co., Connell Bldg. Archts. est. $75,000. Noted Oct. 14.

Ala., Birmingham—POWER PLANT—Alabama Power Co., 600 North 18th St., redeveloping Upper Tallahassee plant on Tallapoosa River, increasing height of dam from 36 to 57 ft., initial installment two 25,000 hp. units with total ultimate of 3 units, to Dixie Constr. Co., B. M. Bldg. Will take bids soon major equipment for Upper Tallahassee Project. Noted July 3, 1924, under "Dam."

Ky., Louisville — HYDRO-ELECTRIC PLANT—Kentucky Hydro-electric Co., hydro-electric plant at Dam 7, to L. E. Myers & Co., 53 West Jackson Blvd., Chicago, Ill. Noted Jan. 21, 1926.

O., Akron—PLANT—Beacon Journal, G. L. Knight, 105 East Market St., brick, steel and rein.-con., newspaper plant, plain foundation, Summit Ave., to Dwight P. Robinson & Co., Inc., 125 East 46th St., New York City. Archts. est. $500,000.

O., Cleveland—BOILER HOUSE—Fisher Body Ohio Co., Coit Rd., 1 story, 30 x 33 ft., brick and steel addition, 860 Coit Rd., to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg. Archts. est. approximately $40,000.

O., Cleveland — FACTORY — Gibson Homans Co., H. O. Gibson, secy.-treas., 2366 Woodhill Rd., 2 story and part basement, 50 x 56 ft., brick and steel addition, to A. A. Lane Constr. Co., 1869 East 55th St. Archts. est. $40,000. Noted Jan. 6.

Ill., Chicago—POWER HOUSE—Armour & Co., U. S. Yards, will build power house, by day labor, under supervision R. C. Clark, archt., c/o owner. $150,000.

Okla., Okmulgee—HOTEL—Chamber of Commerce, c/o C. H. Kretz, chn., having preliminary plans prepared by Smith & Senter, 401 Commerce Investment Bldg., 10 story, rein.-con., brick and stone, Morton Ave. and 3rd St. $800,000.

Calif., Turlock—POWER HOUSE—Turlock & Modesto Irrigation Dists., to T. E. Connolly, 461 Market St., San Francisco, excavating, etc., for power house additions $34,685, concrete work in power house $62,626, hauling to site, placing under crane and setting certain parts metal work and machinery $63,552; to E. L. Soule, Rialto Bldg., San Francisco, reinforcing steel delivered f.o.b. cars $12,758; to Judson Mfg. Co., 604 Mission St., San Francisco, trash racks delivered f.o.b. cars, $840; to Pacific Coast Eng. Co., 938 23rd St., Oakland, steel penstock lining $2,770, and crane rail $235, both delivered f.o.b. cars; to Joshua Hendy Iron Wks., 75 Fremont St., San Francisco, high pressure slide gates delivered f.o.b. cars, $20,140; to S. M. Smith, Hartley and Lincoln Sts., York, Pa., cast steel turbine water wheels delivered f.o.b. cars, $87,144; to Allis Chalmers Co., Wallis St., Milwaukee, Wis., 9,400 KVA. generators delivered f.o.b. cars $89,600, and spare parts of generators, etc., $2,850; to Westinghouse Electric & Mfg. Co., Lang St. and Pennsylvania R.R. tracks, Pittsburgh, Pa., 9,400 KVA. transformers delivered f.o.b. cars $31,055, switchboard delivered f.o.b. $6,105; motor generator set $35,055, and 2,500 KVA. transformers $10,483; to General Electric Co., River Rd., Schenectady, N. Y., circuit breakers and switches $25,861, storage battery $1,360, and Modesto Dist. line equipment $19,980. Grand total $507,099. Noted Dec. 23.

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Constr. News page 43

Buildings—Educational, Religious

Proposed Work

Me., South Portland—SCHOOL—City, G. H. Minot, mayor, City Hall, plans 2 story and basement, brick and stone, Pine and Mussey Sts. $150,000. J. A. and J. H. Stevens, Chapman Bldg., Portland, archts.

N. H., Hudson—SCHOOL—Town, G. C. Blood, chn. School Com. plans 2 story and basement, brick and stone, Lowell Rd. $150,000. Engineer and architect not selected.

Mass., East Braintree (mail Braintree)—CHURCH — East Braintree Methodist Episcopal Church, A. E. Claxton, 28 Elm Knoll Rd., plans 1 story and basement, brick, Commercial St. $150,000. Engineer and architect not selected.

Mass., Hyde Park (Ind. br. Boston) — HIGH SCHOOL—City of Boston, Schoolhouse Dept., City Hall, having plans prepared by McLaughlin & Burr, 88 Tremont St., Boston, 3 story and basement, brick and limestone, plain foundation, Henry Drew Dist., here. $1,500,000.

Mass., Jamaica Plain (sta. Boston) — HOME—Home for Italian Children, c/o W. H. Drummey, archt., 80 Boylston St., Boston, having revised plans prepared 2 story and basement, 60 x 100 ft., brick and terra cotta, plain foundation, 1125 Centre St., here. $150,000. J. P. Dwyer, Jr., 80 Boylston, Boston, engr.

Mass., Salem—CONVENT—St. Josephs Parish, 135 Lafayet St., having plans prepared by J. A. Marchard, 159 Lafayet St., 2 story and basement, brick addition, plain foundation, Harbor St.

Mass., Springfield—CHURCH—Church of Good Shepard, c/o C. C. Coveney, archt., 184 Boylston St., Boston, having sketches made 1 story and basement, brick and stone, Elm St. $150,000.

Mass., Woburn—HIGH SCHOOL—City, School Com., having sketches made Junior High School, 2 story and basement. $650,000. Engineer and architect not selected.

Mass., Worcester — SCHOOLS — City of Worcester, Pub. Building Dept., City Hall, plans two 2 story and basement schools, one at Lee St., and other brick and steel, Adams St. $150,000 each. Engineer and architect not selected.

R. I., Providence—CHURCH—Swedish Evangelcal Lutheran Gloria Die Church, K. Johannson, pastor, 15 Hayes St., having plans prepared by M. Hedmark, c/o owner, 1 story and basement, brick and stone, Hayes St. $150,000 or more.

Conn., Hartford — SCHOOLS — City, Washington Dist., P. H. Greene, chn., plans 6 room brick and steel addition to Wilson St. school; and 4 room addition to Washington St. School. $200,000. Engineer and architect not selected.

Conn., Hartford — SEMINARY — St. Thomas Seminary, M. F. McAuliffe, pastor, having preliminary plans prepared by L. A. Walsh, 51 Leavenworth St., Waterbury, 2 or 3 story, brick and stone, Collins St. $150,000 or more.

Conn., New Britain—SCHOOL—City, J. M. Halloran, chn., having preliminary plans prepared by Warren-Holmes-Powers Co., 64 West Randolph St., Chicago, Ill., rein.-con., brick and steel, incl. gymnasium, Clinton St. $200,000.

Conn., New Britain—CHURCH—First Congregational Church, T. Green, pastor, plans new church, West Main and Lexington Sts. $200,000. Engineer and architect not selected.

Conn., Waterbury — SCHOOL — City, School Bd., City Hall, having plans prepared by T. Freney, 51 Leavenworth St., 2 story and basement, brick and steel addition to Barnard School, Green and Drayer Sts. $150,000.

N. Y., Glendale (mail Brooklyn) — SCHOOL — Bd. Educ., 500 Park Ave., New York City, soon takes bids P. S. 113, 4 story, brick, steel and stone, plain foundation, 79th Ave., here. $586,000. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, engr. and archt.

N. Y., New York—CHURCH, SCHOOL and CONVENT—Roman Catholic Church of Resurrection, J. E. Coggin, pastor, soon takes bids brick, steel and stone, plain foundation, Boston Post Rd. $300,000. Murphy & Lehmann, 159 Remsen St., Brooklyn, archt.

N. Y., New York—COLLEGE—Hunter College, c/o Bd. Educ., 500 Park Ave., having plans prepared by W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn, brick, steel and stone, plain foundation, Park Ave. and 68th St. $1,000,000.

N. Y., Ossining—HIGH SCHOOL—Bd. Educ. having plans prepared by Wilson Potter, 22 East 17th St., New York City, brick, steel and stone, plain foundation, South Highland Ave. $700,000.

N. Y., Port Chester—COMMUNITY CENTER—Jewish Community, c/o J. Weinstein, archt., Metropolitan Bldg., New Haven, Conn., having plans prepared 1 story, 75 x 100 ft., and 4 story and basement, 65 x 75 ft., rein.-con., brick and steel community center, incl. synagogue, gymnasium, kitchen, etc., plain foundation. $250,000.

N. Y., Roslyn—SCHOOL—St. Marys Roman Catholic Church, L. N. Martel, pastor, having plans prepared by W. J. Boegel, 185 Madison Ave., New York City, brick, steel and stone, plain foundation. $185,000.

N. Y., Syracuse—SCHOOLS—City plans 2 extension type schools in Onondaga Valley and Eastwood Sections. $700,000. N. F. Pitts, City Hall, engr. Architect not selected.

N. J., Bayonne — HOSPITAL and NURSES' HOME—Bayonne Hospital, East 30th St., L. F. Donohue, chn., soon takes bids 7 story, brick, steel and stone, plain foundation, East 30th St. $500,000. Crow, Lewis & Wick, 200 5th Ave., New York City, N. Y., archts. Noted May 27.

Pa., Greensburg—SCHOOL—School Dist. having plans prepared by C. C. Compton, Donora, 2 story and basement, irregular shaped, brick on hollow tile school. $150,000. Noted Nov. 11.

Pa., Johnstown—SCHOOL—School Dist. having plans prepared by J. E. Adams, Nemo Bldg., 2 story and basement, irregular shaped, brick on hollow tile, Cypress Ave.

Pa., Juniata (br. Altoona)—SCHOOL—Juniata Boro School Dist., J. W. Lees, chn. building com., 412 7th Ave., plans 3 story and basement, 90 x 100 ft., brick and steel addition to McKinley School, 8th Ave. $200,000. Engineer and architect not selected.

D. C., Wash.—SCHOOLS—Dist. Comrs., District Bldg., take bids about May 1, 2 or 3 story, 60 x 125 ft. top addition to Amidon School, $80,000, and 1 story, 50 x 75 ft. addition to West School, Shepard St. near Georgia Ave., $85,000; also takes bids later 1 story, Petworth School addition, incl. gymnasium and assembly hall, Shepard St. near Georgia Ave., all brick and limestone. A. L. Harris, municipal archt.

Va., Richmond—MEDICAL SCHOOL—University of Virginia, Mutual Bldg., E. A. Alderman, pres., plans new medical building. $1,500,000.

Mich., Royal Oak (Ind. br. Detroit)—CHURCH HOUSE — Methodist Episcopal Church of Royal Oak having plans prepared by F. D. Madison Royal Oak, 2 story and basement, brick and steel, plain foundation, 7th St. and South Lafayette Blvd. $150,000.

O., Attica—SCHOOL—Walker & Norwick, archts., Amer. Bldg., Dayton, soon take bids 2 story and basement, brick and rein-con., plain foundation, incl. auditorium, here, for Bd. Educ., O. H. Meckley, pres. $150,000. Noted Nov. 18.

O., Canton—SCHOOLS—Bd. Educ. plans 2 or 3 story grade school in Mayland Park S. W., $150,000; also 2 story grade school, Maple Ave.

O., Dayton — HOME — H. W. Germann, archt., Miami Savings Bldg., soon takes bids 3 story and basement, brick and concrete, plain foundation, incl. dining hall, living rooms, chapel, etc., Salem Pike, for Nazareth Home for Aged, c/o F. Hane, 3305 South Main St. $300,000.

Ill., Bensonville — ADMINISTRATION and DORMITORIES—W. C. Jones, archt., 19 South La Salle St., Chicago, preparing plans and soon takes bids 2 story, brick administration building and 2 dormitories, here, for Evangelical Synod. $200,000.

Ill., Elmhurst—GYMNASIUM—Elmhurst College having plans prepared by B. F. Olson, 19 South La Salle St., and takes bids about Mar. 1, 2 story and basement, 125 x 125 ft., brick and stone gymnasium. $150,000.

Wis., Kenosha—HOME for AGED—H. M. Pauley, chn. building com., Public Serv. Bldg., having plans prepared by La Croix & Hemmler, 228 3rd St., Milwaukee, 3 story and basement, 32 x 80 ft. and 100 x 135 ft., brick and steel, plain foundation, 61st St. for Carmelite Sisters, 168 Kavanaugh Pl., Wauwatosa. $175,000. Noted Dec. 30.

Wis., Madison — CHAPEL — St. Francis Student Society, c/o N. C. Kimball, rector, plans rein.-con., brick and steel, plain foundation at University. $150,000. Engineer and architect not selected.

Wis., Milwaukee — TEMPLE — Beth-El Congregation, J. H. Pessin, chn. building com., 2327 Vliet St., having preliminary plans prepared by Backes & Uthus, 216 West Water St., 2 story and basement, brick, concrete and terra cotta, plain foundation, Elm and 48th Sts. $250,000.

Minn., Duluth—COLLEGE—Villa Sancta Scholastica, c/o Mother Agnes, soon takes bids 4 story and basement, rein.-con. and stone addition concrete foundation. $200,000. O'Meara & Hills, 1705 Arcade Bldg., St. Louis, Mo., archts.

Kan., Atchison—MONASTERY, etc.—St. Benedicts Abbey having plans prepared by E. Brielmaier & Sons Co., 425 East Water St., Milwaukee, Wis., and soon takes bids 2, 3 and 4 story and basement, 300 x 480 ft., rein.-con., brick and stone, plain foundation. $1,000,000. Noted Jan. 14, 1926.

Kan., Kansas City—HIGH SCHOOL—Election in early spring $150,000 bonds, 1 story addition, Ivandale and Bocke Sts. Engineer and architect not selected.

Mo., St. Louis—CHURCH and RECTORY—St. Georges Catholic Parish, c/o J. A. Siebert, pastor, 8240 Gravois Ave., soon takes bids 2 story and basement, rein.-con., brick and terra cotta, 8200 Gravois Ave. $150,000. O'Meara & Hills, 1705 Arcade Bldg., archts. Noted Nov. 4.

Tex., Abilene—SCHOOL and CHURCH—Abilene Christian College takes bids about Feb. 1, 3 story and basement, 124 x 152 ft., rein.-con. and steel school and church. $150,000. Nichols & Campbell, Abilene, archts. Noted Jan. 13.

Tex., Amarillo — CHURCH — Methodist Episcopal Church, L. J. Stuckey, pastor, takes bids about Jan. 20, 140 x 200 ft., rein.-con. and brick, Polk St. $300,000. R. H. Hunt Co., 1407 Southwest Life Bldg., Dallas, and J. R. Smith, Blackburn Bldg., archts. Noted Jan. 13.

Tex., Amarillo—HIGH SCHOOL—E. F. Rittenberry, archt., Blackburn Bldg., takes bids about Feb. 1, (2nd unit) Senior High School, 3 story, 150 x 200 ft., rein.-con., brick, steel and stone, Polk St., for School Bd. $250,000. Noted Sept. 30.

Tex., San Antonio—SCHOOLS—Election Feb. 19, $600,000 bonds, of which $200,000 for new buildings, $50,000 purchasing new heating apparatus, and balance additions to buildings and equipment, for Bd. Educ., c/o P. Scholz, bus. mgr. Phelps & De Wees, 718 Gunter Bldg., archts. Noted Nov. 11.

Wash., Seattle — SCHOOLS — Election Mar. 8, $2,400,000 bonds, purchasing 15 school sites; completing Grover Cleveland High School; constructing intermediate and two elementary schools, also additions to Roosevelt and Queen Anne High Schools, for Bd. Educ., R. Jones, secy.

Bids Desired

Mass., Salem—NURSES HOME—Salem Hospital, Highland Ave., taking new bids 3 story and basement, brick, plain foundation; Highland Ave. $150,000. Former bids rejected. Haven & Hoyt, 220 Devonshire St., Boston, archts. Noted July 15.

Mass., Worcester—SCHOOL—City, Pub. Buildings Dept., City Hall, taking bids 2 story and basement, brick and stone, May St. $150,000. F. Cutting, 44 Front St., Worcester, archt.

Pa., College Hill (Beaver Falls P. O.)—HIGH SCHOOL—Feb. 3, by Bd. Educ. and W. G. Eckles Co., archts., New Castle, Junior High School, 2 story and basement, irregular shaped, steel and brick on hollow tile. $150,000. Noted Nov. 18.

Pa., Meadville—SCHOOL—Jan. 31, by Bd. Educ. and W. G. Eckles Co., archts., Lawrence Savings & Trust Bldg., New Castle, 2 story and basement, irregular shaped, steel and brick on hollow tile. $150,000. Noted Nov. 18.

N. J., Bloomfield—SCHOOLS—Feb. 10, by Bd. Educ., brick, steel and stone additions to Cartaret and Brookdale Schools. $200,000. J. T. Capen, 207 Market St., Newark, archt.

O., Barberton — SCHOOL — Jan. 25, by Bd. Educ., 2 story and basement, 61 x 153 ft. and 62 ft. wing, brick and steel, concrete foundation, Oakdale and Cassel Sts. $125,000. Harpster & Billman, 234 Central Savings & Trust Bldg., archts. and engrs.

Mich., Ann Arbor—MUSEUM—Jan. 28, by S. W. Smith, secy. Bd. Regents, University of Michigan, 3 story, rein.-con. and brick, plain foundation, North University Ave. $350,000. A. Kahn, 1000 Marquette Bldg., Detroit, archt. Noted Mar. 11.

Mich., L'Anse—HIGH SCHOOL—Feb. 8, by F. E. and G. F. Parmelee, archts., Iron Mountain, 2 story and basement, 160 x 180 ft., rein.-con., brick, steel and stone, plain foundation, for Bd. Educ. $300,000. Noted Dec. 30.

Wis., Milwaukee—DEACONESS HOME—Jan. 22, by Tullgren & Sons Co., 9 Waverly Pl., 5 story and basement, 42 x 125 ft., brick, steel and concrete, plain foundation, 11th and Cedar Sts., for Methodist

Constr. News page 44

Buildings—Educational, Religious (Cont.)

Deaconess Home, 930 Cedar St. $150,000. Noted Dec. 16.

Mo., St. Louis—NURSES HOME—Jan. 23, by G. D. Barnett, archt., 913 Syndicate Trust Bldg., 6 story and basement, 42 x 120 ft., and 33 x 114 ft., rein.-con., brick, terra cotta and cut stone, Audubon Ave. west of Euclid Ave., for St. Johns Hospital, 307 South Euclid Ave. W. J. McKnight & Co., 902 Wainwright Bldg., engrs. Noted July 29.

Mo., St. Louis—SCHOOL—Feb. 2, by Bd. Educ., 911 Locust St., 2 story and part basement, central section consists of 10 classrooms, kindergarten, etc., rein.-con., brick and limestone, Kings highway and Penrose St. $260,000. R. M. Milligan, c/o owner, commissioner.

Okla., Ponca City—HIGH SCHOOL—Jan. 29, by C. E. Norton, city clk., 3 story and basement, 46 x 116 x 264 ft., rein.-con. and brick, plain foundation, Walnut St., for Bd. Educ. $300,000. Smith & Senter, 401-5 Commerce Bldg., Okmulgee, archts. Noted Jan. 6.

Calif., Oakland—HIGH SCHOOL—Feb. 1, by Bd. Educ., Lowell Junior High School, 3 story and basement, brick, incl. gymnasium and assembly hall. $250,000. H. Schroeder, 354 Hobart St., archt. Noted Dec. 16.

Mass., Cambridge (Boston P. O.) — CHEMISTRY—Harvard University, 3 story and basement, 300 x 300 ft., brick and stone, plain foundation, Frisbie Pl., Oxford and Divinity Sts., to Hegeman-Harris Co., 16 North Harvard St., Brighton. Archts. est. $2,000,000. Noted Jan. 17.

N. Y., Glenwood Landing—SCHOOL—Bd. Educ., brick, steel and stone, plain foundation, to Kenneth MacKay Co., Inc., Hudson St., Yonkers, $245,000. Noted Jan. 6.

N. Y., New York — REFECTORY and MISSIONARY APARTMENT — Union Theological Seminary, 120th St. and Bway., 4 story and basement, stone, here, to Edward Corning Co., 145 East 45th St. Noted Jan. 6.

Pa., Phila.—HIGH SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, general contract 3 story and basement, 183 x 290 ft., rein.-con. and brick, 18th and Chelton Sts., to McCloskey Co., 162 Thompson St., $998,417; heating, to S. Faith & Son, 2427 Penn Ave., $86,897; and plumbing, to Bulman Bros., 5th and Cumberland Sts., $41,-868. Grand total $1,127,718. Noted Jan. 13.

Mich., Grosse Pointe (br. Detroit) — SCHOOL—St. Pauls Parish, 2 story and basement, rein.-con., brick and steel, plain foundation, to Talbot & Meier, 250 West Lafayette Ave., Detroit. Archts. est. $150,000.

Kan., Topeka — SCHOOL — Bd. Educ., general contract Randolph School, 2 story and basement, 112 x 142 ft., rein.-con. and brick, to Lundgren & Carlson, 213 Jackson St., $106,600.

Federal Government Work

Proposed Work

Massachusetts — Barracks — War Dept., Wash., D. C., takes bids after Mar. 1, for barracks, Camp Devon, here. $500,000. Noted Sept. 2.

N. Y., Fort Wadsworth (mail Staten Island) Barracks—War Dept., Wash., D. C., takes bids after Apr. 1, barracks, here. $285,000. Noted Sept. 2.

N. Y., Mineola—Barracks—War Dept., Wash., D. C., takes bids after Apr. 1, barracks, at Mitchell Field, here. $287,000. Noted Sept. 2.

Md., Camp Mead—Barracks—War Dept., Wash., D. C., takes bids after Mar. 1, for barracks, here. $410,000.

Md., Edgewood—Dwelling—Constructing Quartermaster rejected bids Dec. 10, 5 to 10 dwellings, at Edgewood Arsenal, here. Will readvertise. Noted Nov. 18.

D. C., Wash.—Roads—U. S. Dept. of Agriculture, Forest Serv., appropriated $7,-500,000 improving roads in national forests for fiscal year 1928.

Va., Fort Humphreys — Barracks — War Dept., Wash., D. C., takes bids after Feb. 15, barracks, here. $500,000. Noted Sept. 2.

N. C., Fort Bragg—Barracks—War Dept., Wash., D. C., takes bids after Feb. 15, barracks, here. $360,000. Noted Sept. 2.

Alabama—Barracks and Quarters—War Dept., Wash., D. C., takes bids after Mar. 1, barracks and officers quarters, at Maxwell Field, here. $130,000 and $70,000 respectively. Noted Sept. 2.

O., Erie—Barracks—War Dept., Wash., D. C., takes bids after Mar. 1, barracks, at Erie Proving Grounds, here. $47,000. Noted Sept. 2.

Mich., Mt. Clemens — Barracks, etc. — War Dept., Wash., D. C., takes bids after Feb. 1, barracks and non-commissioned officers' quarters, at Selfridge Field, here. $570,000 and $180,000 respectively. Noted Sept. 2.

Montana — Road — Bureau Pub. Roads, U. S. Dept. Agriculture, 607 Smead-Simons Bldg., Missoula, making plans grading, etc., 5 mi. Columbia Falls-Glacier Park Natl. Forest Highway, Walton Sect., near Missoula.

Tex., Fort Sam Houston (sta. San Antonio)—Barracks— War Dept., Wash., D. C., takes bids after Mar. 1, for barracks, here. $500,000. Noted May 20.

Wash., Tacoma—Barracks and Hospital —War Dept., Wash., D. C., takes bids after Feb. 1, barracks, $800,000; and takes bids after May 1, hospital, $125,000, at Camp Lewis, here. Noted Dec. 30.

Calif., Mare Island — Elevators — Spec. 5289—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans 3 electric passenger elevators at Navy Yard Hospital, here.

Calif., San Francisco—Roads—Constructing Quartermaster, Fort Mason, plans repairing roads at Fort Baker and Fort Barry. $37,000.

Bids Desired

N. Y., Fire Island (mail Babylon)—Radio Towers—Spec. 5314—Feb. 2, by Bureau Yards & Docks, Navy Dept., Wash., D. C., two 100 ft. galvanized steel radio towers and concrete footings, at Naval Radio Compass Station, here. Former bids rejected. L. E. Gregory, ch. of bureau; adv. E. N.-R. Jan. 20. Noted Dec. 23.

N. Y., Syracuse—Equipment—Feb. 14, Treas. Dept., at Office Supervising Archt., Wash., D. C., mechanical equipment for U. S. Post Office and Courthouse, here; adv. E. N.-R. Jan. 20.

Del., Wilmington — Removing Dredge — Feb. 5, by U. S. Engineer Office, removing sunken dredge "Bailey" from Chesapeake and Delaware Canal; adv. E. N.-R. Jan. 20.

D. C., Wash.—Dredge—Feb. 11, by A. L. Flint, genl. purch. agt., Panama Canal, diesel electric hydraulic dredge and equipment. Noted Dec. 16.

Va., Fort Myer—Storehouse—Jan. 29, by Constructing Quartermaster, Wash., D. C., rein.-con. storehouse, here.

Kan., Fort Leavenworth—Hospital—See "Contracts Awarded."

Bids Received

N. Y., New York—Alterations—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Jan. 11, alterations in Building 3, Hospital 81, Bronx Boro, here, from M. F. Kelly Building Corp., Grand Central Terminal, $4,220 (60 days). Noted Dec. 16.

Minn., Fort Snelling (br. St. Paul)—Tank and Tower—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Jan. 11, steel water tank on tower at U. S. Veterans Hospital, here, from Chicago Bridge & Iron Wks., 30 Church St., New York City, N. Y., $11,950 (120 days). Noted Dec. 30.

Tex., Fort Sam Houston (sta. San Antonio) — Hangars — Constructing Quartermaster, Jan. 3, one 110 ft. and one 66 ft. hangers, from J. W. Zempter & Co., 2123 F St., Galveston, $18,900 and $8,775 respectively. Noted Dec. 16.

Arizona—Road—C. H. Sweetser, dist. engr. Bureau Pub. Rds., Phoenix, constructing road in Crook Natl. Forest, Graham Co., here, from F. D. Shufflbarger, 1224 West Central Ave., Albuquerque, N. Mex., $94,923.

Calif., San Diego—Roads and Walks—Spec. 5211—Bureau Yards & Docks, Navy Dept., Wash., D. C., Jan. 12, concrete walks, curbs, catchbasins, etc., at Naval Operating Base, (Destroyer Base), here, from R. E. Burgund, 806 Roder Dr., Beverly Hills, $10,450. Noted Dec. 16.

T. H., Hilo—Dredging—U. S. Engineer Office, 401 Custom House, San Francisco, dredging in Hilo Harbor, here, from Hawaiian Dredging Co., Ltd., Honolulu, **(Item 1a)** $0.3485 **(1b)** $0.3625 **(1c)** $0.275 **(3a)** $0.3485, **(3b)** $0.3625 and **(3c)** $0.275; from United Dredging Co., Central Bldg., Los Angeles, Calif., **(1a)** $0.398 **(2a)** $0.398 and $0.25 **(3a)** $0.398 **(4b)** $0.398 and $0.25. Noted Nov. 18.

Contracts Awarded

Mass., Northampton—Continued Treatment Building, etc.—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Continued Treatment Building 6 and attendants quarters, etc., to D. A. Sullivan & Son, 78 Main St., $190,796. Noted Nov. 18.

Del., New Castle—Rip Rap Stone, etc.—U. S. Engineer Office, Phila., Pa., removing rip rap stone and concrete piles from Delaware River, near here, to Amer. Dredging Co., Market St. and Mer. Blvd., Phila., Pa. Noted Nov. 25.

D. C., Wash.—Roof, etc.—Pub. Buildings & Pub. Parks of Natl. Capitol, Navy Dept., rebuilding roof, etc., at White House, to N. P. Severin Co., 105 West Monroe St., Chicago, Ill., $185,000. Noted Jan. 6.

N. C., Oteen—Quarters—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., medical officers quarters and 3 duplex officers quarters, to D. D. Thomas & Son, P. O. Box 744, Memphis, Tenn., $86,750. Noted Jan. 6.

Mich., Camp Custer (br. Battle Creek)—Refrigerating Plant—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., refrigerating plant, at U. S. Veterans Hospital 100, here, to Milwaukee Steam Appliance Co., West Allis, $3,750. Noted Dec. 9.

Kan., Fort Leavenworth—Hospital—War Dept., at office Constructing Quartermaster, will build hospital, at U. S. Disciplinary Barracks, here, by prison labor. $125,000. Noted Sept. 2.

C. Z., France Field — Quarters — War Dept., Wash., D. C., allotted $139,000 for officers and non-commissioned officers' quarters, here. Work will be done by day labor under supervision Panama Canal Authorities. Noted Sept. 2.

Unclassified

Proposed Work

Swimming Pool—Brunswick, Me.—Bowdoin College, K. Mills, pres., having preliminary plans and sketches made brick, steel and concrete swimming pool. To exceed $25,000. McKim, Mead & White, 101 Park Ave., New York City, engrs.

Transmission Line—Andover, N. Y.—See "Buildings—Industrial."

Piers, etc.—Baltimore, Md.—Mayor and City Council, City Hall, plans developing port of Baltimore, consisting of piers, warehouses ,streets, bridges, etc. $25,000,-000. B. L. Crozier, City Hall, ch. engr.

Swimming Pool, etc.—Baltimore, Md.—Suburban Club, Park Heights Ave., having plans prepared by B. Frank, 517 North Charles St., swimming pool and 1 story frame bathhouses, Park Heights Ave. $40,000.

Convenience Station—Wash., D. C.—Dist. Comrs., District Bldg., having plans prepared by A. L. Harris, municipal archt., 1 story, brick and concrete public convenience station. $25,000.

Fire Protection and Alarm System—Fort Lauderdale, Fla.—Plans fire protection and alarm system. $75,000.

Stadium—Birmingham, Ala.—City Comn. takes bids in March, concrete athletic stadium, 40,000 seating capacity. $250,000. J. W. Jones, Jr., pres.

Lagoon—Milwaukee, Wis.—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Swimming Pool—Fargo, N. D.—A. R. Watkins, city aud., plans election in April, $50,000 bonds, swimming pool, incl. filters, electric pump, heater, etc.

Natural Gas System—Happy, Tex.—See "Waterworks."

Transmission Line—Oklahoma—Chickasha Gas & Electric Co., Chickasha, plans transmission line from Verden to Anadarko, with improvements in Gracemont, Binger and Lookeba. $60,000. Private plans.

Underpasses—Tulsa, Okla.—Voted $15,000 bonds, underpass at Midland Valley R.R. and Woodward Ave.; $25,000 bonds, at Missouri-Kansas-Texas and North Frisco Railroads; and $75,000, bonds underpass at Midland Valley R.R. and 6th St.

Lighting System—Montebello, Calif.—See "Streets and Roads."

Grade Crossing Elimination — Quebec City, Que.—City Council plans eliminating grade crossings. $150,000.

Grain Storage Tanks—Port Arthur, Ont.—Bawlf Terminal Elevator Co. plans 26 grain storage tanks, cement and steel. $150,000. Private plans.

Entrance — Toronto, Ont. — City voted $160,000 for new stone, brick, steel and ornamental iron entrance gateway to Exhibition Park, near Strachan Ave. Chapman & Oxley, Northern Ontario Bldg., archts. Address Canadian Natl. Exhibition, Lumsden Bldg. Noted Nov. 25.

Bids Desired

Plumbing and Electrical Work—Somerville (Boston P. O.), **Mass.**—First Natl. Stores, Inc., 384 Rutherford Ave., Charlestown, taking bids plumbing and electrical work in wholesale grocery plant, Mystic Ave., here. To exceed $50,000. Monks &

Constr. News page 45

Unclassified (Continued)

Johnson, 99 Chauncy St., Boston, engrs. Noted Nov. 18, under "Buildings—Commercial."

Subway, etc.—Brooklyn, N. Y.—Jan. 28, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, installing tracks for 14th St.-Eastern Line, and constructing duct line in Coney Island Yard, here.

Reinforcing—Mamaroneck, N. Y.—Jan. 26, by Town Bd., at office F. M. Sherman, town clk., 8 Elm St., reinforcing existing apparatus floor in Weaver Street Fire House, Weaver St. A. J. Foote, Hillside Arcade, Larchmont, civil engr.; adv. E. N.-R. Jan. 20.

Electrical Equipment—New York, N. Y.—Feb. 14, by A. Goldman, comr. Dept. Plant & Structures, Municipal Bldg., electrical equipment for destructor plant, East 73rd and Exterior Sts., for Dept. Street Cleaning.

Wading Pool Shelter, etc.—Yonkers, N. Y.—Jan. 31, by Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, constructing wading pool shelter and flagstaff, at Tibbetts Park, here. J. Downer, ch. engr.; adv. E. N.-R. Jan. 20.

Swimming Pool—New Orleans, La.—Jan. 24, by S. Stone, Jr. & Co., archts., 1800 Masonic Temple, rein.-con. swimming pool, filtration and purification apparatus, at Audubon Park, for City. $150,000.

Tunnel—Detroit, Mich.—Feb. 23, by Bd. Water Comrs., 176 East Jefferson Ave., constructing Springwells Tunnel, Contr. Sect. 3. G. H. Fenkell, genl. mgr. and ch. engr.; adv. E. N.-R. Jan. 20.

Electrical Equipment — Chicago, Ill. — Jan. 26, by City, Room 406, City Hall, constructing, delivering and installing entire electrical equipment for double-leaf trunnion bascule bridge over Chicago River, at North La Salle St. A. A. Sprague, comr. Pub. Wks.

Ice Breaker, etc.—South Dakota—Feb. 1, by State Hy. Comn., Pierre, constructing concrete ice breaker at Forest City Missouri River Bridge, incl. 1,014 cu.yd. concrete, 19,500 lb. railroad rails, 952 cu.yd. sand, shale, etc.; also constructing 44,575 ft. 15- to 36-in. rein.-con. pipe for 1927 highway work. J. Botterman, Pierre, ch. engr.

Earthen Tank — Amarillo, Tex. — Dixon Creek Oil Co., taking bids 1,000,000 bbl. capacity earthen tank. $150,000. Private plans.

Heating Plant, etc.—San Antonio, Tex.—Woodlawn Terrace Hotel Co., c/o P. M. Chamberlain, agt., Builders Exch. Bldg., taking sub-bids and open same about Jan. 25, heating plant, refrigerating system, steel sash, steel window frames, brick, hollow tile, mail chutes, 4 elevators, plumbing, electric, hardware, etc., for hotel, Woodlawn Terrace. Noted Dec. 30 under "Buildings—Commercial."

Heating System, etc.—San Antonio, Tex.—Feb. 7, by Bexar Co., Court House, heating system, plumbing, wiring, 3 elevators, furniture, etc., for Courthouse (now under construction), Main Plaza. $200,000. Phelps & De Wees, 718 Gunter Bldg., archts.

Lighting System—Los Angeles, Calif.—Jan. 31, by Supervs. Los Angeles Co., ornamental lighting system on White Ave., etc., Co. Impvt. 623. To exceed $25,000.

Swimming Pool — Redlands, Calif. — See "Buildings—Commercial."

Bids Received

Lighting System—Los Angeles, Calif.—Los Angeles Co., ornamental lighting system on Allen Ave., etc., Co. Impvt. 588, from D. S. McEwan, 2930 Main St., Ocean Park, $67,475; also on Casitas Ave. between Kerr St. and Glendale Blvd., from Walker & Martin, 402 West Wilshire Blvd., Fullerton, $36,826.

Lighting System — Pasadena, Calif. — From Newbery-Pearce Electric Co., 726 South Olive St., Los Angeles, ornamental lighting system on Green St., union metal posts $29,815, Westinghouse posts $30,492, and Marbelite posts $29,979; from Walker & Martin, 402 West Wilshire Blvd., Fullerton, King Ferronite (2-light standard design) $32,709.

Contracts Awarded

Heating and Ventilating System—Dartmouth, Mass. — Town, School Building Com., heating and ventilating system in new high school, to J. N. Conway, 127 Oak St., New Bedford. Archts. est. $25,000. Noted Jan. 13, under "Buildings—Educational, Religious."

Golf Course, etc.—Weston, Mass.—Weston Golf Club, altering golf course and constructing club house addition, to W. Wilson, Stonybrook. Archts. est. to exceed $25,000.

Constr. News page 46

Telephone System—Kings Park, N. Y.—State Hospital Comn., Capitol, Albany, telephone system at Kings Park State Hospital, here, to Michaels & Co., 301 Bd. Trade Bldg., Norfolk, Va., $61,238. Noted Dec. 30.

High Pressure Steam Lines—Ogdensburg, N. Y.—Commissioner Mental Hygiene, Capitol, Albany, installing high pressure steam supply lines in St. Lawrence State Hospital, here, to W. A. Alexander, 23 Charlotte St., Rochester, $37,729. Noted Dec. 30.

Refrigeration Work—Ossining, N. Y.—J. L. Long, supt. State Prisons, Capitol, Albany, refrigeration work at state prison, here, to Buffalo Refrigerating Machine Co., 39 Lafayette St., Brooklyn, $2,808. Noted Nov. 11.

Swimming Pool—Cuyahoga Falls, O.—See "Buildings—Commercial."

Foundation — Milwaukee, Wis. — See "Buildings—Industrial" under "Proposed Work."

Park Development—South Mound, Kan.—See "Dams."

Grain Elevator — Kansas City, Mo. — Wabash R.R. Co., R. H. Howard, ch. engr., Exch. Bldg., St. Louis, general contract 1,000,000 bu. rein.-con. addition to grain elevator, here, to James Stewart & Sons Constr. Co., 343 South Dearborn St., Chicago, Ill. Engrs. est. $500,000.

Hydro-Electric Development—Oregon—California-Oregon Power Co. (subsidiary of Standard Gas & Electric Co., 454 California St., San Francisco, Calif.), hydro-electric development on north fork of Rouge River, incl. power plant initial capacity 22,000 hp., ultimate total capacity, 66,000, diversion dam, 6,600 ft. open canal, 3,100 ft. wood stave pipe, step-up sub-station, 980 ft. penstock transmission line, etc., to Byllesby Eng. & Management Corp., 231 South La Salle St., Chicago, Ill., approximately $3,250,000.

Docks and Grain Elevator—Fort William, Ont.—N. M. Patterson Co., general contract docks and grain storage elevator 60 x 90 x 200 ft. high, fireproof, to Fegles Constr. Co Fort William. Engrs. est. $1,000,000. Noted Jan. 13.

Materials

Proposed Work

Steel, Cement and Valves—Turlock, Calif.—Turlock & Modesto Irrigation Dists. soon take bids cement delivered f.o.b. cars at Hetch Hetchy and at Hickman, and pivot type valves; also recommends purchase in open market structural steel, small valves and piping, etc.

Bids Desired

Trackwork—Boston, Mass.—Jan. 25, by Transit Dept., furnishing and delivering special trackwork for Dorchester Rapid Transit, freight prepaid f.o.b. cars Walworth Siding, East 1st and O Sts., South Boston. $5,000 bond. T. F. Sulivan, chn.

Broken Stone—New York, N. Y.—Jan. 21, by P. J. Dooling, comr. Purchase, Municipal Bldg., broken stone to Dept. Plant & Structures.

Structural Metal Work, etc.—Phila., Pa.—Jan. 25, by C. E. Walsh, purch. agt. Pennsylvania R.R., 17th and Filbert Sts., structural metal work and material for bridge repairs, Contr. 17-1927; also frogs, switches, crossings and crossover switch points, Contr. 18-1927. A. C. Shand, Broad St. Sta., ch. engr. railroad.

Cement—Mt. Clemens, Mich.—Jan. 24, at Macomb Co. Rd. Office, 210,000 bbl. cement.

Corporation Cocks — Chicago, Ill. — Jan. 27, by City, Room 406, City Hall, quantity ¾ to 2 in. corporation cocks at Pipe Yards B and D. A. A. Sprague, comr. Pub. Wks.

Curb Cocks—Chicago, Ill.—Jan. 27, by City, Room 406, City Hall, ten thousand nine hundred ¾ to 2 in. roundaway curb cocks, by trucks at Pipe Yard B, 3150 South Sacramento Ave. A. A. Sprague, comr. Pub. Wks.

Shut-off Box Fittings—Chicago, Ill.—Jan. 25, by City, Room 406, City Hall, quantity shut-off box fittings and calking ripples, etc., by truck at Pipe Yard B, 3150 South Sacramento Blvd. A. A. Sprague, comr. Pub. Wks.

Lumber, etc.—Guthrie Center, Ia.—Jan. 25, at office Auditor Guthrie Co., 236,820 ft. bridge lumber, and 5,400 ft. creosoted southern yellow pine piling. A. McKeel, Guthrie Center, co. engr.

Lumber, etc.—Harlan, Ia.—Jan. 25, at office Auditor Shelby Co., 153,800 ft. full sawed and 72,000 ft. standard sawed bridge lumber, 6,000 ft. cypress and 13,400 ft. creosoted Southern yellow pine piling, 15,000 ft. creosoted Southern yellow pine timber, and 3,200 ft. corrugated culvert material. F. W. Sarvis, Harlan, co. engr.

Road Oil—Winona, Minn.—Feb. 7, H. W. Hoffmann, city clk., 170,000-200,000 gal. bituminous road oil. Former bids rejected. Noted Dec. 30.

Bids Received

Lead Covered Cable — Boston, Mass. — Transit Dept., 1 Beacon St., Jan. 11, 125,400 ft. braid and lead covered cable and wire, East 1st and O Sts., South Boston, from Underground Cable Co., 10 Post Office Sq., $17,188.

Paving Blocks, etc.—Brooklyn, N. Y.—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, Jan. 12, from M. F. Hickey Co., 83 9th St., 15,000 cu.yd. asphalt sand $14,700, 3,000 cu.yd. sand grit $5,280, and 3,000 cu.yd. paving sand $2,940; from Hastings Pavement Co., 25 Broad St, New York City, 50,000 asphalt paving blocks $4,894; from J. Leopold & Co., Inc., Woolworth Bldg., New York City, 50,000 Grade 1 granite paving blocks $6,500; from Southern Wood Preserving Co., 10 East 43rd St., New York City, 80,000 wood paving blocks $3,872; from M. M. Canda, 184 3rd St., 8,000 bbl. portland cement $21,280; from F. J. Lewis Mfg. Co., 300 Doremus Ave., Newark, N. J., 200 tons paving pitch $4,800; from Capitol Sand & Gravel Co., 5th St. and 2nd Ave., 20,000 cu.yd. steam cinders, $28,500; from Warner Quinlan Co., 26 Beaver St., New York City, 600,000 gal. asphaltic cement, $42,180; from New York Trap Rock Co., 101 Park Ave., New York City, 6,000 cu.yd. binder stone $1,164, and 10,000 cu.yd. coarse aggregate $17,100; from Clover Connite Co., Inc., 1629 East 30th St., 2,000 cu. yd. sand paving $2,060; from Texas Co., 17 Battery Pl., New York City, 600,000 gal. asphalt road oil, $39,300. Noted Jan. 6.

Sand, etc.—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Jan. 13, from Rosoff Sand & Gravel Corp., 152 West 42nd St., New York City, 15,000 cu.yd. sand, $15,000; from Peace Bros., Inc., 57 North Lawrence St., Flushing, 30,000 cu.yd. broken stone $83,100, 3,000 cu.yd. broken stone $8,220, and 4,000 bags portland cement, $2,880; from E. B. Simpson, Inc., Hollis, 30,000 cu.yd. broken stone, $83,100; from Moran Bros. Contg. Co., 17 Battery Pl., New York City, 27,000 tons steam ashes, $40,500; from Hastings Pavement Co., 25 Broad St., New York City, 100,000 asphalt paving blocks, $9,328; from Standard Oil Co. of New York, 62 7th Ave., New York City, 650,000 gal. road oil $41,680, 400,000 gal. asphaltic binder $30,120, and 3,000 tons asphalt cement, $69,750; from Terminal Supply Co., 250 Park Ave., New York City, 25,000 vitr. paving blocks, $1,606; from Warner Quinlan Co., 32 Beaver St., New York City, 400,000 gal. fuel oil, $26,200; from Kelly Springfield Truck & Bus Co., 53 Park Pl., New York City, 11 asphalt motor trucks, $52,811. Noted Jan. 6.

Lead Substitute — Baltimore, Md. — Bd. Awards, furnishing and delivering 100,000 lb. lead substitute to Bureau of Water Supply, from E. Nuebling, 1220 Eckert Ave., Reading, Pa., $10,000.

Treated and Untreated Ties—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., treated and untreated ties, Order 7, to Eppinger & Russell Co., 165 Bway., $49,969.

Crushed Slag—Detroit, Mich.—Dept. Pub. Wks., City Hall, furnishing 50,000 tons crushed slag for unpaved streets, to Ford Motor Co., River Rouge Plant, at $1.25 per ton at plant, total $62,500.

Contracts Awarded

Inorganic Dust, etc.—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., 4,000 tons inorganic dust, and 8,000 cu.yd. 3¼ in. binder stone, to New York Trap Rock Co., 250 Park Ave., $26,000 and $15,520 respectively; 4,000 cu.yd. coarse aggregate and 20,000 cu.yd. asphalt sand to Colgan Contg. Co., 26 Court St., Brooklyn, $6,390 and $4,245 respectively; 3,500 cu.yd. sand grit and 3,000 cu.yd. concrete paving sand, to Ames & Carroll, Inc., 3441 Kingsbridge Rd., $4,970 and $19,800 respectively; 600 tons asphaltic joint filler, to Standard Oil Co. of New York, 362 7th Ave., $13,884; 700,000 gal. asphaltic cement, to Warner Quinlan Co., 26 Beaver St., $50,190; 60,000 gal. gasoline to Utility Oil Corp., 175 Hunts Point Ave., Long Island City, $8,400; and 50,000 special granite paving blocks, to J. Meehan & Sons, Inc., 90 West St., $6,675. Grand total $156,074. Noted Jan. 13.

See proposal advertising on page 136

Engineering News-Record Unit Prices

ELEVATED LINE—BROOKLYN, N. Y.

Bids were opened by Board of Transportation, 49 Lafayette St., New York City, for constructing elevated line connecting 14th St. Route with Bway. elevated system of Rapid Transit R.R., from (A) Gotham Constr. Corp., 50 Church St. (awarded contract); McClintic-Marshall Co., 50 Church St.; (C) Jobson-Gifford Co., 441 Lexington Ave.; contractors all of New York City. The unit bids are as follows:

	A	B	C
2,100 cu.yd. excavation for column foundations	$4.80	$5.00	$6.00
630 cu.yd. concrete masonry in place	29.00	18.00	30.00
8 cu.yd. removing and disposing of old masonry	70.00	50.00	50.00
1,650 tons riveted steel, beams and shapes	108.00	153.00	150.00
200 tons removing and disposing of old steel	16.00	16.00	30.00
1,000 sq.in. (*a*) cutting old steel	.60	.70	.60
200 (*b*) drilling holes in old steel	1.25	2.30	1.00
2,000 (*c*) removing rivets	.60	1.20	.60
1 ton steel rods and bars in concrete	120.00	150.00	150.00
Street surface restored			
50 sq.yd. (*a*) within curb lines	5.00	6.00	5.00
25 cu.yd. (*e*) asphalt	8.00	15.00	5.00
50 sq.yd. (*f*) granite block	8.00	8.00	6.00
800 lin.ft. of single tract maintaining electric overhead trolley) St. R.R.	3.90	5.00	5.00
Support and maintenance of roadway line (lump sum)	13,193.00	2,000.00	6,000.00
Electric ground connection	100.00	150.00	150.00
Extended totals	$229,743	$288,825	$298,37

BRIDGE—KANSAS

Bids were opened by State Highway Commission, Topeka, Dec. 23, (lowest 3) for constructing Bridge No. L, rainbow arch, and earth work in connection with same, F. A. P. 372, Sect. A, Crawford Co., from (A) Fred Luttjohann, 2053 Kansas St., Topeka (awarded contract); (B) Maxwell Construction Co., Columbus; (C) Independent Construction Co., Pittsburg. The unit bids are as follows:

	A	B	C
720 cu.yd. dry excavation	$1.00	$1.50	$1.50
259 cu.yd. wet excavation	4.00	5.00	7.00
125 cu.yd. rock excavation	8.00	8.00	7.00
662.8 cu.yd. class "A" concrete	20.00	20.00	22.00
80.4 cu.yd. class "C" concrete	16.00	18.00	17.00
16.2 cu.yd. class "D" concrete 1:2:3½	20.00	22.00	22.00
25.7 cu.yd. class "E" concrete	30.00	40.00	35.00
51,895 lb. reinforcing steel	.045	.05	.05
36,653 lb. structural steel	.085	.08	.09
Removal of old bridge (lump sum)	50.00	200.00	200.00
Extended totals	$23,894	$25,820	$27,066
ROADWAY APPROACH 0.989 MILES			
17,570.7 cu.yd. excavation	$0.34	$0.33	$0.38
53.5 cu.yd. class "A" concrete	20.00	20.00	20.00
1.7 cu.yd. class "E" concrete	40.00	40.00	40.00
4,114 lb. reinf. steel in place	.05	.05	.05
80 lin.ft. 18-in. corr. metal pipe	3.00	2.50	3.50
2,380 lin.ft. gd. FC cable, conc. post	.75	.75	.85
43.35 hedge to be removed sta.	10.00	10.00	10.00
40 lin.ft. 18-in. R.C. pipe	3.80	3.00	4.00
Extended totals	$9,928	$9,681	$10,917

ROAD WORK—ARIZONA

Bids were opened by C. H. Sweetser, Dist. Engr., Bureau Public Roads, U. S. Department of Agriculture, Grand Canyon, Dec. 21, for grading, etc., Grand Canyon Highway Project, Grand Canyon National Park, Cocoino Co., from (A) J. Vallandingham, 188 H St., Salt Lake City, Utah; (B) Rawls & Wright, El Paso, Tex.; (C) Pearson & Dickerson, Riverside, Calif. The unit bids are as follows:

	A	C	C
39,899 cu.yd. excavation unclassified	$1.60	$1.25	$1.40
28,923 cu.yd. borrow	.60	.60	.70
2,000 cu.yd. excav., uncl., widening subgrade sta. 0—311, grand view section	1.00	1.25	1.40
90 cu.yd. excavation, unclassified for structures	1.50	1.00	2.80
21,000 sta.yd. overhaul	.03	.05	.10
0.6 mi. finishing earth graded road	200.00	100.00	280.00
13.4 mi. fine grading subgrade and shoulders	150.00	300.00	730.00
20,731 cu.yd. crushed rock base course	3.65	4.75	4.35
141,410 sq.yd. penetration macadam top course	.65	.60	.68½
†180 days operation for roller on subgrade, contractor to furnish roller	30.00	25.00	10.00
*180 days operation of roller on subgrade (alternate for using government owned roller (item No. 18)	19.00	15.00	9.00
128 cu.yd. dry rubble masonry	4.00	10.00	1.40
730 lin.ft. 18 in. c.m.p. (pipe furnished by Govt.)	.40	.65	.35
728 lin.ft. 24 in. c.m.p. (pipe furnished by Govt.)	.50	.75	.35
310 lin.ft. 30 in. c.m.p. (pipe furnished by Govt.)	.75	.85	.35
9,000 lin.ft. protection ditches	.10	.05	.24
45 cu.yd. rip rap	3.00	7.50	1.40
Extended totals all items except *	$261,507	$266,117	$283,073
Extended totals all items except †	259,527	264,317	282,893

ROAD WORK—OREGON

Bids were opened by State Highway Commission, Portland, Dec. 23, (lowest three) for grading 10.69 mi. Hayes Hill-Shattuck Corner section Redwood Highway, Josephine County, from (A) Washburn & Hall, Worcester Bldg., Portland, (awarded contract); (B) Inland Construction Co., Ry. Exch. Bldg., Portland; (C) Shell & Rhodes, Oakland, Calif. The unit bids are as follows:

	A		C
Clearing and grubbing (lump sum)	$10,000.00	$1,500.00	$9,000.00
97,000 cu.yd. common excav.	.38	.33	.35
71,000 cu.yd. solid rock excav.	.58	.85	.70
340,000 sta.yd. overhaul	.03	.02	.03
240 cu.yd. class A concrete	24.00	20.00	23.00
20 cu.yd. class C concrete	24.00	16.00	22.00
22,000 lb. metal reinf.	.07	.07	.07
17 M ft. b.m. lumber and timber in flumes	50.00	45.00	50.00
600 cu.yd. rock or gravel backfill for drain	2.00	1.45	1.50
5,000 lin.ft. 6-in. porous draintile	.25	.45	.30
800 lin.ft. 12-in. concrete culvert pipe	1.50	1.50	1.35
1,500 lin.ft. 18-in. concrete culvert pipe	2.50	2.25	2.40
700 lin.ft. 24-in. concrete culvert pipe	3.15	3.50	3.30
400 lin.ft. 30-in. concrete culvert pipe	5.00	4.50	4.50
260 lin.ft. 18-in. concrete siphon pipe	3.25	3.00	3.50
60 lin.ft. 24-in. concrete siphon pipe	4.50	5.00	5.00
800 lin.ft. 12-in. corr. galv. iron culvert pipe	1.25	1.30	1.35
1,500 lin.ft. 18-in. corr. galv. iron culvert pipe	2.35	2.10	2.40
700 lin.ft. 24-in. corr. galv. iron culvert pipe	2.90	3.10	3.30
400 lin.ft. 30-in. corr. galv. iron culvert pipe	4.65	4.50	4.50
260 lin.ft. 18-in. corr. galv. iron siphon pipe	3.00	2.50	3.50
60 lin.ft. 24-in. corr. galv. iron siphon pipe	3.75	5.00	5.00
Extended totals	$119,500	$120,010	$123,600

SEWER—CLEVELAND, OHIO

Bids were opened by city, Dec. 22, for constructing sewer in East 82nd St. from Wade Park Ave. to Hough Ave., Sect. 1, from (A) The Winterbottom-Connelly Co., 1400 West 35th St.; (B) Lafornaro & Nero Construction Co., Union Mortgage Bldg.; (C) Graham & Henderson Co., Chester-Twelfth Bldg.; (D) J. J. Donnelly; (E) Stange Construction Co., 2315 Fairmount Rd.; (F) Walter P. Gibbons Co., Akron. The unit bids are as follows:

	A	B	C	D	E	F
490 lin.ft. 11 ft. 6 in. cir. (special section open cut)	105.00	124.00	126.00	133.50	172.00	120.00
1,780 lin.ft. 11 ft. 6 in. cir. "E" (in tunnel)	145.00	142.00	173.25	177.10	172.00	200.00
90 lin.ft. 10 ft. 0 in. cir. "E" (in tunnel)	170.00	95.00	175.10	170.00	172.00	200.00
10 lin.ft. increaser (11 ft. 6 in. cir. to 11 ft. 0 in. x 12 ft. 6 in. special section)	185.00	95.00	180.00	175.00	172.00	120.000
36 lin.ft. 3 ft. 0 in. cir. "C" brick sewer	30.00	60.00	25.00	23.00	50.00	30.00
20 lin.ft. No. 2 "C" brick sewer	30.00	45.00	25.00	23.00	50.00	20.00
4 lin.ft. 36 in. cast iron pipe	15.00	40.00	10.00	12.00	50.00	40.00
500 lin.ft. 6 in. underdrain	.50	2.00	.70	1.00	3.00	1.00
10 lin. ft. 24 in. double strength pipe sewer	10.00	30.00	15.00	23.50	24.00	10.00
1 junction manhole at Hough Ave.	500.00	2,000.00	250.00	280.00	500.00	500.00
40 lin.ft. 12 in. straight and curved catch basin pipe, laid	2.75	10.00	3.00	2.75	12.00	2.00
212 in. slant in place	1.00	5.00	1.50	1.75	5.00	2.00
18 6 in. slant in place	1.25	5.00	1.00	1.25	5.00	1.00
1 baffle manhole	2,000.00	2,500.00	2,300.00	2,650.00	1,200.00	3,000.00
4 make connections to existing sewers	25.00	100.00	20.00	18.00	300.00	10.00
80 M. ft. b.m. hardwood grillage	40.00	60.00	30.00	35.00	100.00	50.00
10 cu.yd. shale brick masonry	40.00	30.00	50.00	47.00	40.00	40.00
5 cu.yd. class "A" concrete	25.00	30.00	50.00	47.00	27.00	30.00
100 lb. reinforcing steel	.07	.30	.10	.08	.10	.10
100 lin.ft. 6 in. stand pipe	1.75	2.00	2.00	1.90	10.00	1.00
200 lin.ft. 6 in. house sewer connections relaid	1.50	10.00	2.00	1.90	5.00	1.50
1 manhole complete as specified on No. 2 sewer	225.00	600.00	200.00	175.00	500.00	200.00
1 manhole complete as specified on 11 ft. 6 in. sewer at Hough Ave.	1,000.00	600.00	800.00	925.00	500.00	2,000.00
1 manhole complete as specified on 11 ft. 6 in., sewer at Melrose Ave.	400.00	600.00	200.00	175.00	500.00	300.00
1 extra manhole on tunnel section	1,500.00	600.00	1,800.00	2,000.00	500.00	2,000.00
400 cu.yd. extra excavation	4.00	10.00	4.00	3.75	5.00	5.00
Extended totals	$340,457	$346,793	$400,755	$411,770	$430,405	$451,342

Engineering News-Record Unit Prices

ROAD WORK—ARIZONA

Bids were opened by W. C. Lefebvre, State Engr., Phoenix, Nov. 22 (lowest three), for constructing Miami-Globe Highway, Federal and Non-Federal Aid Project No. 91-A, from (A) Borderland Construction Co., Tucson, (awarded contract); (B) Johnson & Atkinson, Glendale; (C) Schmidt & Hitchcock, Phoenix. The unit bids are as follows:

	A	B	C
SCHEDULE NO. 1			
109 cu.yd. excav. roadway (unclass.)	$0.40	$1.50	$0.73
1,687 cu.yd. excav. borrow (unclass.)	.60	.75	.73
1,000 st.yd. overhaul earthwork	.08	.05	.90
1 manhole (complete)	10.00	10.00	36.50
1,785 sq.yd. 6-in. conc. pav. (S.F.C.)	1.65	1.80	1.71
1,785 sq.yd. 2-in. asp. conc. on 4-in. bit. base	.....	.....	.....
1,785 sq.yd. 2-in. bit. top on 4-in. bit. base	.....	.....	.....
STRUCTURES OVER 20 FT. CLEAR SPAN			
426 cu.yd. excav. structure (unclass.)	1.00	2.10	1.10
330 cu.yd. Class "A" conc. (S.F.C.)	16.00	19.00	21.85
45,225 lb rein. steel (haul, bend, place) (S.F.S.)	.04	.02	.04
Total schedule No. 1	$11,606	$12,728	$73,344
SCHEDULE NO. 2			
833 cu.yd. excav. roadway	.40	1.50	.73
61 cu.yd. excav. borrow	.60	.75	.73
1,000 st.yd. O. H. earthwork	.08	.05	.09
2,371 sq.yd. 6-in. conc. pav. (S.F.C.)	1.65	1.80	1.71
2,371 sq.yd. 2-in. asp. conc. on 4-in. bit. base	.....	.....	.....
2,371 sq.yd. 2-in. bit top on 4-in. bit. base	.....	.....	.....
STRUCTURES OVER 20 FT. CLEAR SPAN			
1,098 cu.yd. excav. structures (unclass.)	1.00	2.00	1.10
731 cu.yd. class "A" conc. (S.F.C.)	16.00	18.00	21.85
65,145 lb. rein. steel (haul, bend, place) (S.F.S.)	.04	.02	.04
Total schedule No. 2	$19,761	$22,269	$13,978
CITY SCHEDULE			
928 cu.yd. excav. roadway (unclass.)	.40	1.50	.73
1,025 cu.yd. excav. structures (unclass)	1.00	1.00	1.10
533 cu.yd. class "A" conc. (S.F.C.)	14.00	17.00	17.00
18,331 lb. rein. steel (haul, bend, place) (C.F.S.)	.04	.02	.04
5 manholes (complete)	10.00	10.00	36.50
5,722 sq.yd. 6-in. conc. pav. (S.F.C.)	1.65	1.80	1.71
5,722 sq.yd. 2-in. asp. conc. on 4-in. bit. base	.....	.....	.....
5,722 sq.yd. 2-in. bit. top on 4-in. bit. base	.....	.....	.....
Total city schedule	$19,082	$22,194	$21,566
Total all schedules concrete	$50,450	$57,192	$60,127

TIES—NEW YORK, N. Y.

Bids were opened by Board of Transportation, 49 Lafayette St., Jan. 7, (lowest three) for furnishing and delivering treated and untreated ties, from (A) Eppinger & Russell Co., 165 Bway., (awarded contract); (B) Southern Wood Preserving Co., 10 East 43rd St.; (C) Jennison-Wright Co., 50 Church St. The unit bids are as follows:

For class "C" (6x10-in.) treated ties furnished and delivered as follows:	A	B	C
23,350 (a) ties, 26-in. long, drilled for spikes only, intermediate	$1.12½	$1.16	$1.30
3,350 (b) ties 2-in. long, drilled for spikes only, joint	1.12½	1.16	1.29
3,350 (c) ties 3 ft. 10½ in. long, drilled for spikes only, third rail	1.744	1.84	2.03
4,600 (d) ties 2 ft. 6 in. long, drilled for anchor bolts only, joint and intermediate	1.12½	1.16	1.29
2,510 (e) ties 3 ft. long, drilled for anchor bolts only, joint and intermediate	1.35	1.38	1.54
590 (f) ties 3 ft. 10½ in. long, drilled for anchor bolts only, third rail	1.744	1.84	2.03
310 (g) ties 4 ft. 4½ in. long, drilled for anchor bolts only, third rail	1.968	2.07	2.27
For class "C" (6x8 in.) treated ties furnished and delivered as follows:			
330 ties 2 ft. 6 in. long, drilled for spikes only, intermediate	.90	.92	.95
50 ties 2 ft. 6 in. long, drilled for spikes only, joint	.90	.92	.95
50 ties 3 ft. 10½ in. long drilled for spikes only, third rail	1.39½	1.47	1.48
For class "A" untreated (6x8 in.) ties, furnished and delivered as follows:			
1,235 8 ft. long	1.856	2.82	2.46
14 8 ft. 6 in. long	1.972	3.00	2.62
390 9 ft. long	2.16	3.17	2.77
20 9 ft. 6 in. long	2.28	3.35	2.93
13 10 ft. long	2.40	3.53	3.08
11 10 ft. 6 in. long	2.52	3.70	3.23
10 11 ft. long	2.64	3.88	3.48
5 11 ft. 6 in. long	2.76	4.06	3.63
9 12 ft. long	2.88	4.24	3.78
8 12 ft. 6 in. long	3.00	4.40	3.93
6 13 ft. long	3.12	4.58	4.08
7 13 ft. 6 in. long	3.24	4.76	4.23
7 14 ft. long	3.36	4.93	4.38
7 14 ft. 6 in. long	3.48	5.11	4.53
5 15 ft. long	3.60	5.28	4.68
3 15 ft. 6 in. long	3.72	5.46	4.83
Extended totals	$49,969	$53,307	$58,175

Constr. News page 48

ROAD WORK—CALIFORNIA

Bids were opened by C. H. Sweetser, dist. engr., U. S. Bureau Public Roads, 461 Market St., San Francisco, Dec. 28, (lowest three) for grading Valley Rd., Yosemite Natl. Park, Mariposa County, from (A) Allied Contractors, Inc., 1803 Douglas St., Omaha, Neb., (awarded contract); (B) W. Moreing, Stockton; (C) C. W. Wood, Manteca; asphalt macadam paving on same from (A) W. Moreing (awarded contract); (B) Dennis Construction Co., Sacramento; (C) A. J. Grier, Oakland. The unit bids are as follows:

Grading and drainage structures	A	B	C
14,805 cu.yd. excavation, unclassified	$0.55	$0.80	$1.10
3,724 std.yd. overhaul	.02	.02	.05
37,122 cu.yd. borrow	.55	.50	.40
18,442 yd.mi. haul, borrow	.17	.20	.27
32.76 cu.yd. class "A" concrete	40.00	45.00	35.00
3,536 lb. reinforcing steel	.06	.06	.10
256.05 cu.yd. cement rubble masonry	15.00	25.00	19.00
1,256 lin.ft. 18-in. C.M.P. (hauling and placing)	1.25	.60	1.20
162 lin.ft. 24-in. C.N.P. (hauling and placing)	1.50	.80	2.00
Removing old pavement and cleaning up old roadway, Sta. 113 to Sta. 120, North Road, lump sum	200.00	400.00	500.00
Extended totals	$39,146	$43,539	$44,996

Asphaltic macadam paving	A	B	C
15.15 mi. preparing subgrade for paving	$700.00	$1,000.00	$2,000.00
4,200 cu.yd. crushed rock or gravel shoulders	4.70	3.50	4.50
1,000 ton asphaltic cement, applied	33.00	35.00	35.00
168,805 sq.yd. crushed rock base course in place	.70	.75	.70
159,921 sq.yd. asphaltic macadam top course	.55	.52	.70
1,000 cu.yd. stockpiling coarse aggregate	4.65	2.00	2.00
Extended totals	$274,115	$276,613	$316,308

SEWAGE PUMPING STATION, ETC.—SALINA, KAN.

Bids were opened by city, Dec. 14, (lowest four) for constructing sewage pumping station, force main, sewage treatment plant and outfall sewer, from (A) H. J. Taylor Construction Co., Salina, (awarded contract); (B) R. O. Shriver, Salina; (C) Carrothers & Nelson, Kansas City; (D) Stimson Construction Co., Topeka. The unit bids are as follows:

	A	B	C	D
SECTION I				
Pumping station (lump sum)	$22,100.00	$27,189.00	$24,500.00	$25,000.00
SECTION II. (Furnishing and laying) Force Main				
10,300 ft. 20 in. class A	6.10	5.86	6.00	5.92
10,300 ft. 20 in. class 50	5.40	5.15	5.30	5.60
28 ft. 14 in. class A	4.00	4.00	16.10	4.25
28 ft. 14 in. class 50	3.85	3.75	16.10	4.15
Furnishing Only				
785 ton 20 in. class A	.....	64.50	.....	52.50
1.25 ton 14 in. class A	.....	64.50	.....	52.50
10,300 ft. 20 in. class 50	.....	4.20	.....	60.00
28 ft. 14 in. class 50	.....	3.00	.....	60.00
3.8 ton specials	.....	25.00	.....	150.00
Laying Only				
10,300 ft. 20 in. class A	1.30	1.05	1.40	1.75
28 ft. 14 in. class A	1.12	.95	16.00	1.65
10,300 ft. 20 in. class De Lavaud	1.28	1.05	1.40	1.65
28 ft. 14 in. De Lavaud	1.10	.95	16.00	1.60
SECTION III				
Sewage treatment (lump sum)	55,200.00	58,500.00	64,500.00	60,500.00
Excavation (wet)	2.00	6.00	1.00	3.00
Excavation (dry)	.51	.35	.15	.45
Extra conc. (plain) per cu.yd.	.....	25.00	20.00	25.00
Extra concrete (steel) per lb	.055	.05	.05	.06
Sheathing (new) per m.b.m.	100.00	60.00	70.00	60.00
Sheathing (old) per m.b.m.	75.00	50.00	70.00	40.00
7,000 cu.yd. borrow	.35	.....	.....	.....
SECTION IV				
690 lin.ft. furnishing and laying 18 in pipe	3.78	3.75	4.51	6.60
2 manholes	90.00	125.00	90.00	150.00
Sheathing (new) per m.b.m.	100.00	60.00	70.00	60.00
Sheathing (old) per m.b.m.	75.00	50.00	70.00	40.00
Extended totals	$139,662	$145,065	$148,793	$152,532

BRIDGE—FLORIDA

Bids were opened by State Highway Department, Tallahassee, Jan. 5, (lowest four and highest) for constructing 120-ft. bridge near Francis, Putnam County, from (A) Robert W. Curtis, Lynchburg, Va.; (B) C. T. Dawkins, Tampa, (awarded contract); (C) Erter Corporation, Tampa; (D) Eau Gallie Construction Co., Eau Gallie; (E) Lateu Bridge Co., York, Pa. The unit bids are as follows:

	A	B	C	D	E
312 cu.yd. class "A" concrete—substructure	$28.65	$34.85	$34.50	$38.00	$55.00
186 cu.yd. class "A" concrete—superstructure	28.65	30.00	34.50	35.00	45.00
238 lin.ft. Concrete Handrail	3.00	3.00	2.50	4.37	4.00
50,900 lb. reinforcing steel	.05	.06	.07	.06	.06
Extended totals	$17,527	$20,221	$21,339	$22,460	$29,536